


CATALOGUE No.


E.6.

1939

A large, stylized logo consisting of a red outline of a curved shape, resembling a hook or a stylized letter 'S', set against a black background.

**SPEAR &  
JACKSON**

SPEARIOR &  
NEVER BEND  
TOOLS

A collection of stylized saw blades in red and black, arranged in a fan-like pattern at the bottom of the page. The blades are depicted with their teeth and handles, creating a sense of depth and movement.



Cables  
Telegrams

SPEAR, SHEFFIELD.

Telephone: 20202 Five lines (Private Exchange).

# Spear & Jackson Ltd.

Steel Makers for  
Over 160 Years.

**AETNA WORKS SHEFFIELD**

Codes used: A1, A-B-C. 4th, 5th and 6th Editions, Liebers, Bentleys, Western Union,  
Engineering, Marconi, and S. & J.'s Private Code.

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**TRADE MARKS:**



MERMAID



LEAP-FROG



Æ T N A



GOBLIN  
(DUENDE)



JOHN COCKERILL

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**CATALOGUE E6-1939**

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**CANADIAN WORKS:**

**SPEAR & JACKSON (B.C.) LTD., Ætna Saw Works, VANCOUVER, B.C.**

**CABLES: SPEAR, VANCOUVER, CANADA.**

## WARRANTY.

**E**VERY Saw and Tool bearing our name or Registered Trade Marks is warranted to be as true as it is possible to make it ; free from flaws, seams, and cracks. If found defective, return to us ; we will, at our option, either have it put right or replaced, free of charge. Our warranty does not cover improper treatment, such as the filing of square corners in the gullets of teeth, case-hardening of gullets by the improper use of emery wheels, &c., &c.

We cannot entertain any claim for loss, damages, or expenses under this warranty.

## CONDITIONS OF SALE.

All prices are subject to alteration without notice.

All goods are invoiced at prices current in the absence of a specific agreement to the contrary.

All special goods made to order are not returnable, nor are they subject to cancellation if partly made.

“ Stubs ” Iron Wire Gauge is used in all cases to indicate the thickness of saws, see page 3.

Remittances from Abroad should be made by Draft on London free of exchange.

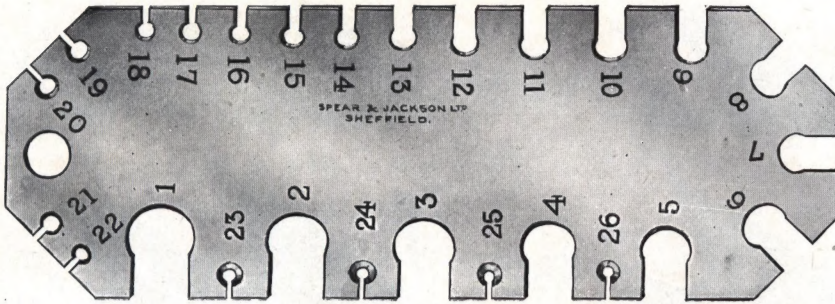
Packages are charged at cost price unless it is distinctly stated that they are included in the price of the goods.

The time of delivery is named subject to unforeseen contingencies, and we accept no liability for delays. Orders are not subject to cancellation except by mutual agreement. Where promises for delivery are given they are made in good faith, and we do not hold ourselves responsible for claims in cases of delay.

All goods of £10 value and over, are delivered F.O.R. English Port, unless specially contracted for otherwise.

The illustrations given in this list are not binding, as we reserve the right to modify and improve designs from time to time.

# Spear & Jackson Standard Gauge corresponds exactly to STUBS Gauge.



STUBS' GAUGE	DECIMALS INCH.	NEAREST FRACTION INCH.	MILLIMETRES.	To find the approx. weight in lbs. of Circular Saws, square diameter in inches and divide by Number below for Gauge.
1	.300	$\frac{19}{64} +$	7.62	15
2	.284	$\frac{9}{32} +$	7.21	16
3	.259	$\frac{17}{64} -$	6.58	17
4	.238	$\frac{15}{64} +$	6.05	19
5	.220	$\frac{7}{32} +$	5.59	20
6	.203	$\frac{13}{64} -$	5.16	22
7	.180	$\frac{11}{64} -$	4.57	25
8	.165	$\frac{11}{64} -$	4.19	27
9	.148	$\frac{9}{64} +$	3.76	30
10	.134	$\frac{9}{64} -$	3.40	33
11	.120	$\frac{1}{8} -$	3.05	37
12	.109	$\frac{7}{64} -$	2.77	41
13	.095	$\frac{3}{32} -$	2.41	47
14	.083	$\frac{5}{64} +$	2.11	53
15	.072	$\frac{5}{64} -$	1.83	62
16	.065	$\frac{1}{16} +$	1.65	68
17	.058	$\frac{1}{16} -$	1.47	77
18	.049	$\frac{3}{64} +$	1.25	91
19	.042	$\frac{3}{64} -$	1.07	106
20	.035	$\frac{1}{32} +$	0.89	127
21	.032	$\frac{1}{32} +$	.81	139
22	.028	$\frac{1}{32} -$	.71	158
23	.025	...	.63	177
24	.022	...	.56	202
25	.020	$\frac{1}{64} +$	.51	222
26	.018	...	.46	246

+ indicates that the true thickness is OVER the fractional equivalent shewn.  
 - " " " " LESS THAN " "

## Standard Shapes of Teeth for Circular Saws.



**A.**  
FOR  
HIGH-SPEED  
RIPPING.



**B.**  
FOR EDGER SAWS  
AND HIGH-SPEED  
RIPPING.



**6A**  
FOR SOFT  
WOODS.



**13**  
FOR MEDIUM,  
HARDWOODS.



**19.**  
FOR HARD AND  
SOFT WOODS.



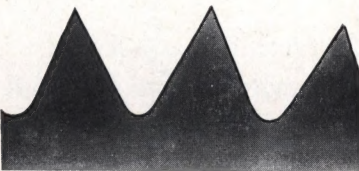
**13A**  
A "GOOD  
GENERAL  
PURPOSE  
TOOTH."



**15.**  
NEW ZEALAND  
TOOTH.



**8A.**  
FOR  
SOFTWOODS.



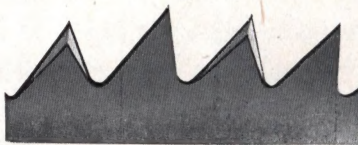
**E or 2A.**  
FOR GENERAL  
CROSS CUTTING.



**16.**  
FOR CUTTING  
FIREWOOD.



**G.**  
FOR  
HARDWOODS.



**F.**  
FOR HARD AND  
SOFTWOODS.



**1B.**  
FOR SMALL  
CIRCULAR SAWS.



**H or 1A.**  
FOR SMALL  
CIRCULAR SAWS.

## CIRCULAR SAWS.

### PARTICULARS REQUIRED WHEN ORDERING.

1. Diameter in inches or m/m.
  2. Thickness on Rim in Stubs' Gauge, millimetres, or thousandths of an inch (see page 3).
  3. Diameter of Spindle.
  4. Size of Pin Hole or Keyway.
  5. Distance from Centre of Pin Hole to Centre of Spindle Hole, or distance from edge of Centre Hole to edge of Pin Hole.
  6. Shape of Tooth. Send drawing or specify our number (see page 4).
  7. Space or distance of teeth from point to point, or give number of teeth.
  8. If for hand or power feed.
  9. Number of revolutions per minute.
  10. If for cutting hard or soft wood.
- ¶ Unless otherwise stated, Standard Saws suited to the country of destination are supplied.
- ¶ Unless otherwise specified, Spring Set will always be supplied.

### SPEED OF CIRCULAR SAWS.

OUR STANDARD SAWS ARE HAMMERED TO RUN AT THE FOLLOWING SPEEDS :

Diameter	...	8	10	12	16	20	24	26	32	36	40 inches.
Revs. per minute		4,780	3,820	3,180	2,390	1,910	1,590	1,470	1,190	1,060	956
Diameter	...	44	48	52	56	60	64	68	72	76	84 inches.
Revs. per minute		870	797	736	683	638	598	563	532	504	456

Based on 10,000 ft. per minute on the periphery.

Saws can be hammered to run at any desired speed.

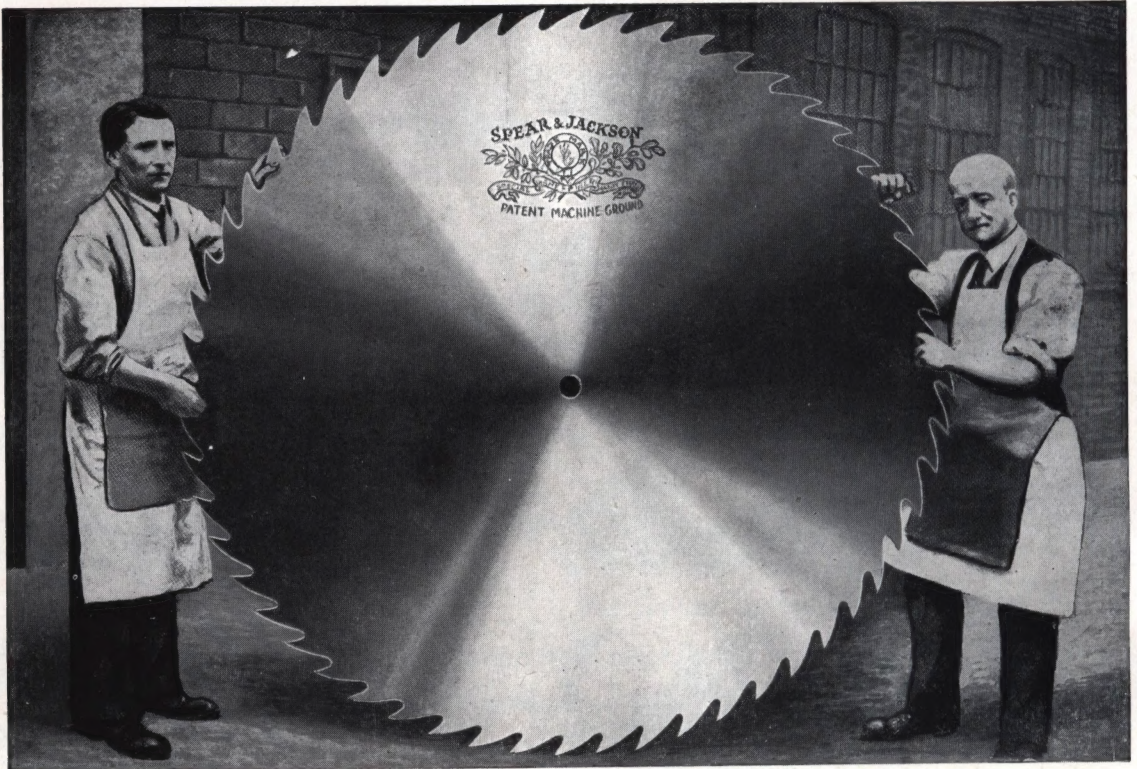
Unless otherwise specified, we send the correct shape of tooth, gauge, etc., for each individual market.

ESTABLISHED 1774

**Spear & Jackson Ltd.**  
AETNA WORKS SHEFFIELD

OVER 160 YEARS AGO

## “MERMAID” QUALITY CIRCULAR SAWS.



This is our standard quality and is not to be confused with the regular standard Sheffield made Saw. “Mermaid” Quality is made of a special grade of ALLOY Steel which is the result of many years of research, experiment and tests under actual sawing conditions in the most up-to-date Mills in all parts of the globe.

These saws have repeatedly proved themselves superior to any others in the World under the most exacting conditions in both edge keeping and tension holding properties.

It is on “Mermaid” saws that Spear & Jackson have built their world-wide reputation. Every saw is fully guaranteed.

“Mermaid” Quality Saws will stand up to the hardest and fastest power feed.



**“MERMAID” Quality CIRCULAR SAWS.**

**SPRING SET and SHARPENED, READY FOR USE.**

Diameter.		.81	.89	1.07	1.25	1.47	1.65	1.83	m/m		Standard
Inches.	c/ms.	21	20	19	18	17	16	15	Gauge		centre
4	10	4.6	4.6	4.9	5.0	5.3	5.6	5.9	each		1"
6	15	7.0	7.0	7.0	7.6	8.0	8.6	9.0	"		1 1/2"
8	20	9.6	9.6	9.6	9.6	10.3	11.0	11.9	"		2"
10	25	—	13.0	13.0	13.0	13.0	13.9	14.6	"		2 1/2"
		1.47	1.65	1.83	2.11	2.41	2.77	3.05	3.40 m/m.		
		17.G	16.G	15.G	14.G	13.G	12.G	11.G	10 Gauge		
12	30	16.0	16.0	17.3	18.6	19.9	21.0	22.3	23.6 each		3"
14	35	20.0	20.0	21.6	23.0	24.6	26.0	27.6	29.0 "		3 1/2"
16	40	24.0	24.0	24.0	25.9	27.6	29.3	31.0	32.9 "		3 3/4"
18	45	30.0	30.0	30.0	30.0	32.0	34.0	36.0	38.0 "		1"
20	50		36.0	36.0	36.0	36.0	38.6	41.0	43.6 "		1"
22	55		42.0	42.0	42.0	42.0	45.0	48.0	51.0 "		1"
		1.83	2.11	2.41	2.77	3.05	3.40	3.76	4.19	4.57 m/m.	
		15.G	14.G	13.G	12.G	11.G	10.G	9.G	8.G	7 Gauge	
24	60	48.0	48.0	48.0	48.0	51.6	55.0	58.6	62.0	65.6 ea.	1 1/4"
26	65	56.0	56.0	56.0	56.0	60.0	64.0	68.0	72.0	76.0 "	1 1/2"
28	70		66.0	66.0	66.0	70.6	75.0	79.6	84.0	88.6 "	1 3/4"
30	75		76.0	76.0	76.0	76.0	81.0	86.0	91.0	96.0 "	1 3/4"
32	80		88.0	88.0	88.0	88.0	94.0	100.0	106.0	112.0 "	1 1/2"
34	85		104.0	104.0	104.0	104.0	111.0	118.0	125.0	132.0 "	1 1/2"
		2.77	3.05	3.40	3.76	4.19	4.57	5.16	5.59	6.05 m/m.	
		12.G	11.G	10.G	9.G	8.G	7.G	6.G	5.G	4 Gauge	
36	90	120.0	120.0	120.0	128.6	137.0	145.6	154.0	162.6	171.0 ea.	1 1/2"
38	95	145.0	145.0	145.0	155.0	165.0	175.0	185.0	195.0	205.0 "	1 3/4"
40	100	160.0	160.0	160.0	172.0	184.0	196.0	208.0	220.0	232.0 "	1 3/4"
42	105	180.0	180.0	180.0	180.0	195.0	210.0	225.0	240.0	255.0 "	1 3/4"
44	110	215.0	215.0	215.0	215.0	233.0	251.0	269.0	287.0	305.0 "	1 3/4"
46	115		240.0	240.0	240.0	240.0	261.0	282.0	303.0	324.0 "	1 3/4"
		3.05	3.40	3.76	4.19	4.57	5.16	5.59	5.59 m/m.		
		11.G	10.G	9.G	8.G	7.G	6.G	5 Gauge			
48	120		270.0	270.0	270.0	270.0	294.0	318.0	342.0	each	1 3/4"
50	125			380.0	380.0	380.0	380.0	407.0	434.0	"	2"
52	130			420.0	420.0	420.0	420.0	450.0	480.0	"	2"
54	135				480.0	480.0	480.0	480.0	515.0	"	2"
56	140					570.0	570.0	570.0	610.0	"	2"
58	145					620.0	620.0	620.0	665.0	"	2"
		4.19	4.57	5.16	5.59	6.05	6.58 m/m.				
		8.G	7.G	6.G	5.G	4.G	3 Gauge				
60	150	680.0	680.0	680.0	680.0	730.0	780.0	830.0	880.0	each	2"
62	155		760.0	760.0	760.0	815.0	870.0	920.0	970.0	"	2 1/4"
64	160		860.0	860.0	860.0	920.0	980.0	1040.0	1100.0	"	2 1/4"
66	165		980.0	980.0	980.0	1045.0	1110.0	1170.0	1240.0	"	2 1/4"
68	170		1100.0	1100.0	1100.0	1170.0	1240.0	1310.0	1380.0	"	2 1/4"
70	175		1250.0	1250.0	1250.0	1250.0	1330.0	1410.0	1490.0	"	2 1/4"
72	180		1400.0	1400.0	1400.0	1400.0	1490.0	1580.0	1670.0	"	2 1/4"
78	198			2100.0	2100.0					"	2 1/4"
80	203			2220.0	2220.0					"	2 1/4"
84	213			2460.0	2460.0					"	2 1/4"

Standard Thickness  
is priced in  
**HEAVY TYPE.**

The above quality Saws are also made in a temper suitable for cutting, **Bone, Ivory, Horn, Bakelite, Rubber, Celluloid, Fibre, etc., etc.**, at 10 per cent. extra over net prices.

Unless specially ordered all Circular Saws are sent out slightly stronger at the centre than at the rim. Saws of intermediate diameters to those listed above are charged next size larger.

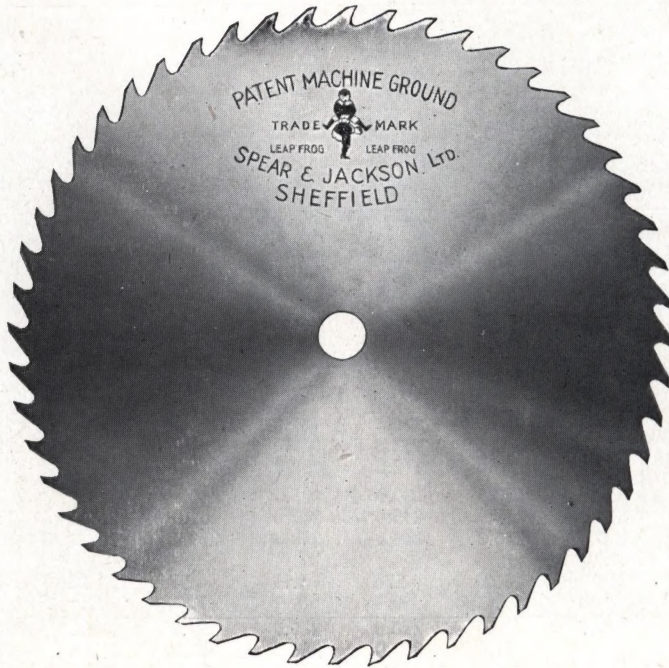
ESTABLISHED 1774

**Spear & Jackson Ltd.**  
AETNA WORKS SHEFFIELD

OVER 160 YEARS AGO

**Spear & Jackson's Standard Sheffield Quality.**

**“LEAPFROG” Brand.**



**A** good regular quality Circular Saw, recommended for use where the highest and fastest power feeds are not used. It is a very reliable quality and is really superior in tempering, grinding, balance and finish to the usual standard Sheffield quality.

“Leapfrog” Brand Saws are just as carefully scrutinised in all stages of manufacture as “Mermaid” Brand, the main difference being in the costly alloys put into the higher quality.

We can safely recommend “Leapfrog” Quality for the general class of Sawmilling.



"Leapfrog"

# "LEAPFROG" QUALITY CIRCULAR SAWS

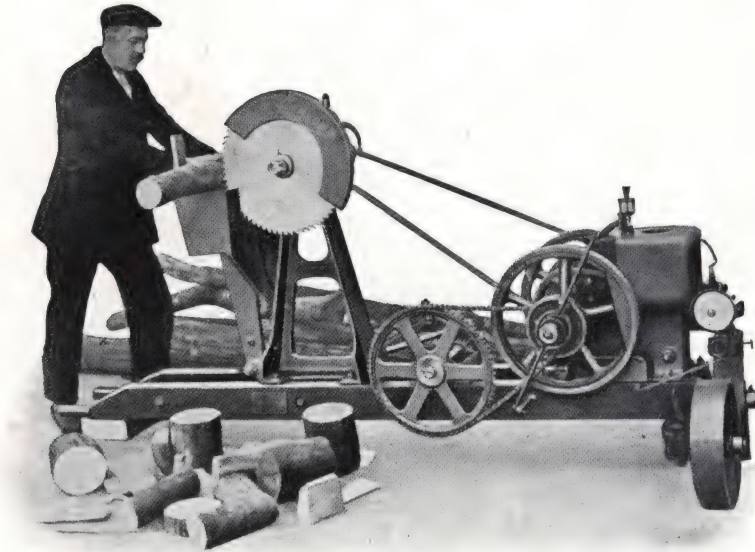


"Leapfrog"

Diameter inches.	Standard thickness Stubs' W.G.	Diameter m/m	Thickness m/m	Size of Hole.	Approximate Weight.	PRICE each.		Extra for each Gauge thicker after 1 Gauge thicker than Standard			
						£ s. d.	£ s. d.	£ s. d.	£ s. d.		
2	22	51	0.71	3/8	0.5	0	3	6	0	0	3
2 1/2	22	64	0.71	3/8	1 1/2	0	3	9	0	0	3
3	22	76	0.71	3/8	2	0	4	0	0	0	3
4	21	102	0.80	3/8	3	0	4	6	0	0	3
5	21	127	0.80	1/2	4	0	6	0	0	0	6
6	20	152	0.89	1/2	5	0	7	0	0	0	6
8	19	203	1.07	1/2	10	0	9	6	0	0	9
10	18	254	1.24	1/2	1 lb.	0	13	0	0	0	9
12	17	305	1.47	3/4	1 3/4	0	16	0	0	1	3
14	17	356	1.47	3/4	2 1/4	1	0	0	0	1	6
16	16	406	1.65	3/4	3 1/4	1	4	0	0	1	9
18	15	457	1.83	1	5	1	10	0	0	2	0
20	14	508	2.11	1	7	1	16	0	0	2	6
22	14	559	2.11	1	9	2	2	0	0	3	0
24	13	610	2.41	1 1/4	12	2	8	0	0	3	6
26	13	660	2.41	1 1/4	14	2	16	0	0	4	0
28	13	711	2.41	1 1/4	16	3	6	0	0	4	6
30	12	762	2.77	1 1/2	23	3	16	0	0	5	0
32	12	813	2.77	1 1/2	26	4	8	0	0	6	0
34	12	864	2.77	1 1/2	28	5	4	0	0	7	0
36	11	914	3.05	1 3/4	34	6	0	0	0	8	6
38	11	965	3.05	1 3/4	42	7	5	0	0	10	0
40	11	1016	3.05	1 3/4	47	8	0	0	0	12	0
42	10	1067	3.40	1 3/4	52	9	0	0	0	15	0
44	10	1118	3.40	1 3/4	56	10	15	0	0	18	0
46	9	1168	3.76	1 3/4	63	12	0	0	0	1	0
48	9	1219	3.76	1 3/4	77	13	10	0	0	1	4
50	8	1270	4.19	2	90	19	0	0	0	1	7
52	8	1321	4.19	2	100	21	0	0	0	1	10
54	7	1372	4.57	2	112	24	0	0	0	1	15
56	7	1422	4.57	2	122	28	10	0	0	2	0
58	7	1473	4.57	2	130	31	0	0	0	2	5
60	6	1524	5.16	2	164	34	0	0	0	2	10
62	6	1575	5.16	2 1/4	171	38	0	0	0	2	15
64	6	1626	5.16	2 1/4	182	43	0	0	0	3	0
66	6	1676	5.16	2 1/4	192	49	0	0	0	3	5
68	6	1727	5.16	2 1/4	203	55	0	0	0	3	10
70	5	1778	5.59	2 1/4	238	62	10	0	0	4	0
72	5	1829	5.59	2 1/4	260	70	0	0	0	4	10
74	5	1880	5.59	2 1/4	266	80	0	0	0	5	0
76	5	1930	5.59	2 1/4	280	91	0	0	0	6	0
78	5	1981	5.59	2 1/4	300	105	0	0	0	7	0
80	5	2032	5.59	2 1/4	320	111	0	0	0	7	10
82	5	2083	5.59	2 1/4	336	117	0	0	0	7	15
84	5	2134	5.59	2 1/4	354	123	0	0	0	8	0

Unless specially ordered all Circular Saws are sent out slightly stronger at the centre than at the rim. Saws of intermediate diameters to those listed above are charged next size larger. "LEAPFROG" circular saws are not guaranteed to swage set.

## FIREWOOD OR CORDWOOD SAWS.



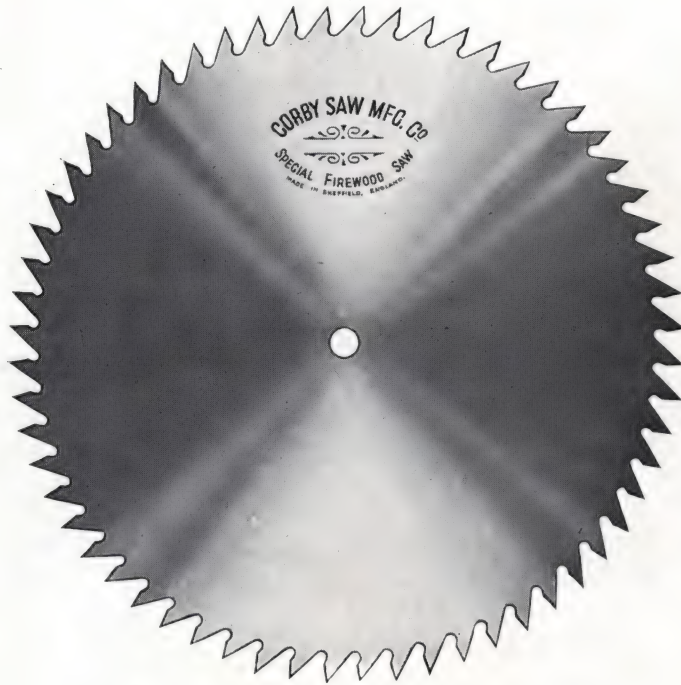
Portable Saw Bench carrying "Corby" Cordwood Saw.

**W**E have specialised in the manufacture of these Saws on a mass production basis which hitherto has been an exclusively American production.

Being the largest manufacturers of wood Saws in Europe and the British Empire, we naturally have the plant for dealing with this class of Saw.

The metal is a good Carbon quality steel which is specially suitable for this class of work. Owing to the mass production methods of manufacture, we keep to the standard sizes, but if special sizes are required and the quantities are of sufficient inducement, we are prepared to consider the manufacture of same.

## FIREWOOD OR CORDWOOD SAWS.



Diameter .. ..	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"
Maximum Gauge ..	12	12	12	12	11	11	10	10	10	10	9.G
Minimum Gauge ..	13	13	13	13	12	12	12	12	12	12	11.G
Centre Hole ..	1"	1 $\frac{1}{4}$ "	1 $\frac{1}{4}$ "	1 $\frac{1}{4}$ "	1 $\frac{3}{8}$ "	1 $\frac{3}{8}$ "	1 $\frac{3}{8}$ "	1 $\frac{3}{8}$ "	1 $\frac{3}{8}$ "	1 $\frac{3}{8}$ "	1 $\frac{1}{2}$ "
No. of Teeth ..	60	60	60	60	64	66	68	70	72	76	80
Price, Each.. ..	12/-	14/-	16/6	18/6	21/-	24/6	29/-	34/-	38/-	45/6	53/-

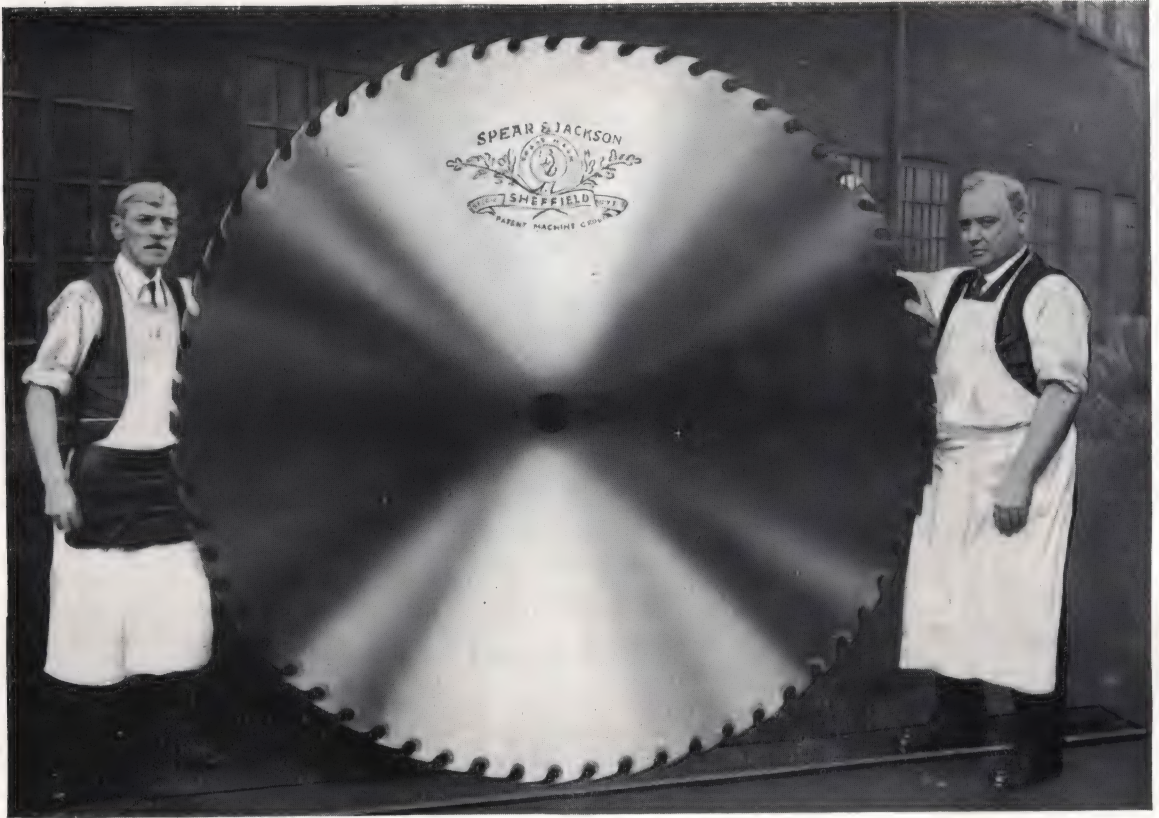
Can be supplied in any of the usual shapes of teeth but in no case of finer pitch than  $\frac{1}{4}$  in.  
"CORBY" circular saws are not guaranteed to swage set.

ESTABLISHED 1774

**Spear & Jackson Ltd.**  
AETNA WORKS SHEFFIELD

OVER 160 YEARS AGO

## Spear & Jackson's "MERMAID" Brand INSERTED TOOTH SAWS.



Spear & Jackson are the sole manufacturers of this type of saw in Europe and are one of the largest manufacturers in the World of Inserted Tooth Saws and Teeth.

Apart from the obvious advantage of their long life, of always retaining the same diameter, they will stand heavy feeds. The plate is made from "Mermaid" Saw Steel capable of holding its tension longer than plate saws. The teeth or points are tempered much harder than saw plates, therefore their cutting edge stands up much longer between sharpenings than with plate saws.

The V into which the teeth and holders are inserted is accurately machine milled.

The particular size or type of tooth is based on the style of machine and the work to be done.

We can assist you in choosing the correct saw if we know the kind of machine, the wood to be cut, the speed and power available and the size of saw desired.

Our booklet "The Mermaid" Saw and Cutter Manual, fully describes the method of working and keeping in order this type of saw. This booklet can be obtained from any of our Agents or Stockists, or direct from us.

## Concerning Inserted Tooth Circular Saws.

1. They always retain their full diameter, and therefore have always the same periphery speed.
2. Owing to the special grade of steel used for the teeth, they retain their cutting edge longer than an ordinary plate saw. As the plate is quite separate from the teeth it is possible to have the teeth of a higher temper than the plate without any fear of the plate cracking.
3. Less energy is required to feed, and they cut easier, as an ideal hook is maintained, and greater clearance is provided in the gullet.
4. They stand a heavier and faster feed.
5. As the plate is not strained nor the tension destroyed by gulleting they work longer before re-hammering. Again, as the diameter of the plate never decreases, the tension for periphery speed remains constant, not as in the solid tooth saw where the plate wears down and the periphery speed decreases, calling for a decrease in the quantity of tension in the plate.
6. Inserted tooth saws do not require packing so tightly as solid saws and are not so liable to buckle.
7. This class of Saw does not require as many teeth as the ordinary circular plate saw. The teeth being swaged, each cuts the full width of the Kerf and does the duty of two spring set teeth.
8. The teeth are easily fitted, and cannot work loose or fly out.
9. They are much easier to sharpen, and effect a considerable saving in sawyers' time, cost of files, and lost machine time.
10. The removal of old and the insertion of new teeth is a simple operation, requiring no special skill. Anyone who can use a wrench can do it effectively.
11. The facilities of replenishments are obvious: instead of having to allow for the freight and cartage of heavy saws, a parcel of new teeth is your new saw.

**WARNING.** It is essential when re-toothng an inserted tooth saw, the teeth be changed one at a time. If all the teeth are removed before new ones are inserted the saw is apt to lose it's tension and require re-hammering.

In ordering our Teeth and Holders for other makes of Saws kindly note following Table showing other makers' pattern numbers which are interchangeable with ours :-

S. & J. ... ..	2	2½	3	4	5	33	3D	B.	D.	F.
Disston ... ..	4½	6	7	8	9	33	3	—	—	—
Atkins ... ..	2	2½	3	4	5	—	—	—	—	—
Simonds ... ..	2	2½	3	4	5	—	—	B.	D.	F.
Hoe ... ..	2	2½	3	4	5	—	—	—	—	—

Note particularly that Disston's No. 3 does not correspond to S. & J's. No. 3 but to S. & J's. No. 3D.

Patterns 4, 5, B, D & F are manufactured exclusively in our Vancouver Factory where we also manufacture Inserted Tooth Cut-off Saws up to 8 feet diameter, all types of milled bits and Shingle & Jointer Saws. For quotations apply direct to Spear & Jackson (B.C.) Ltd., Aetna Works, Granville Island, Vancouver, B.C., Canada.

The prices shown for complete Saws include one extra set of Teeth, two spare Holders and a Wrench.

Standard Blades are one gauge stronger at centre than at rim. This, however can be varied if specially ordered.

Taper Saws. If more than one gauge taper, add 5 per cent. to list price for each gauge.

We do not warrant Saws thinner than one gauge below standard.

We reserve the right to alter the Standard Gauges slightly, according to local conditions.

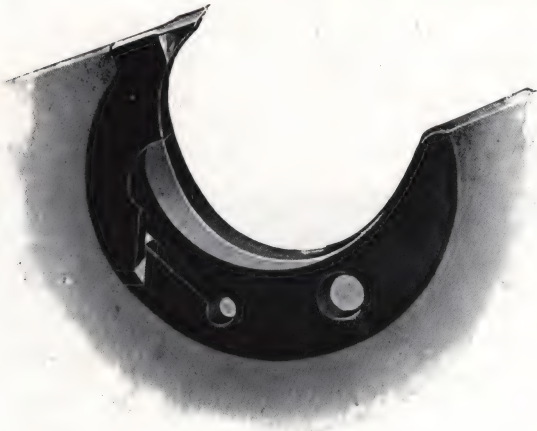
No. 3 type of tooth is made exclusively by us, in three lengths of top; 5/8" is the standard; but we can make 9/16", and, in the case of 6G. Saws only, 3/4". These longer top teeth are recommended in most cases for use in soft woods, and give definitely longer service.

The following widths of Kerf can be supplied from stock. Those in heavy type are recommended as being the standard for the corresponding gauges. Widths of Kerf other than those mentioned may be had on receipt of specification :

Thickness of Saws ...	12			11		10		9		Stubs' Gauge.
Width of Kerf ... ..	5/32	3/16	7/32	3/16	7/32	1/4	7/32	1/4	9/32	Inch.
Thickness of Saws ...	8			7		6				Stubs' Gauge.
Width of Kerf ... ..	1/4	9/32	5/16	9/32	5/16	11/32	5/16	11/32	3/8	Inch.

Our Teeth and Holders of the same size are guaranteed interchangeable.

No responsibility can be taken for Saws the holes of which are altered in the mill. It is almost impossible to stone these Saws round in the bench: therefore, the centre hole should be most accurately determined when compiling details for ordering.



## INSERTED TOOTH CIRCULAR SAWS.

No. 2 is the small type and most suitable for Hand Feed, Automatic Rope, and Roller Feed Benches of the smaller dimensions.

Full Size view of No. 2 Tooth and Holder.

### No. 2 (UP TO 40 IN.) AND No. 2½ TOOTH.

Diameter in inches	Standard Gauge at rim	No. of teeth		PRICE EACH (With standard number of teeth)	Extra for each gauge thicker
		Standard	Recommended maximum (At extra cost)		
14	10	14	—	£ 7 13 6	£ 0 1 0
16	10	16	—	8 1 0	0 1 2
18	10	18	20	8 16 0	0 1 4
20	10	18	22	9 9 0	0 1 8
22	10	20	24	10 10 0	0 2 0
24	10	22	26	11 14 0	0 2 4
26	10	24	28	12 18 6	0 2 8
28	10	26	30	14 3 0	0 3 0
30	10	28	32	15 10 6	0 3 4
32	10	30	34	17 5 6	0 4 0
34	9	32	36	19 0 6	0 4 8
36	9	34	38	22 10 0	0 5 10
38	9	36	40	25 6 6	0 6 8
40	8	38	42	27 19 6	0 8 2
42	8	40	44	29 17 6	0 10 2
44	8	46	50	33 12 6	0 12 2
46	8	50	54	35 13 0	0 14 2
48	8	52	56	39 7 0	0 16 4
50	8	56	60	42 15 6	0 18 4
52	7	58	62	47 5 0	1 0 4
54	7	60	64	52 9 6	1 3 8
56	7	62	66	57 14 0	1 7 0
58	6	64	68	62 19 0	1 10 4
60	6	66	70	69 4 0	1 13 10
62	6	66	70	76 2 6	1 17 2
64	6	68	72	84 17 6	2 0 6
66	6	72	76	90 9 0	2 3 10
68	6	76	80	99 18 0	2 7 4
70	6	78	82	109 7 0	2 14 0
72	6	80	84	116 15 6	3 0 8

Above prices include one set of spare Teeth, two spare Holders and a Wrench. Saws made any thicker than gauge listed are charged extra as shown in column 6. No extra charge is made for Saws one gauge thinner than gauge listed. **We do not warrant Saws more than one gauge thinner than standard.** Saws for Double Edger work should be one gauge thicker than standard listed above. For prices of Teeth and Holders, and also for General Conditions governing the sale of Inserted Tooth Circular Saws, see page 16.

**Extra for Inserted Tooth Circular Saws with more than standard number of teeth. 10/- per extra tooth.**





Full size view  
of No. 3 Tooth  
and Holder.

**TYPES 2½ & 3.**

Nos. 2½ and 3 are recommended for the heavier breaking-down work on Automatic Rack and Travelling Carriage Saw Benches, Double Edging Machines etc.

**TYPE 33.**

No 33 Type Tooth is a new pattern which is finding universal favour, and can be recommended for all classes of work.



No. 33.

Full size view of No. 33 Tooth and Holder

**Price List for No. 3 and No. 33.**

Diameter in inches	Standard Gauge at rim	No. of teeth		PRICE EACH (With standard number of teeth)	Extra for each gauge thicker				
		Standard	Recommended maximum (At extra cost)		£	s.	d.		
16	10	12	14	£ 6	10	0	0	1	2
18	10	14	16	7	5	0	0	1	4
20	9	14	18	8	0	0	0	1	8
22	9	16	20	9	0	0	0	2	0
24	9	18	22	10	0	0	0	2	4
26	9	20	24	11	0	0	0	2	8
28	9	20	24	11	5	0	0	3	0
30	9	20	24	11	13	0	0	3	4
32	9	22	26	13	9	0	0	4	0
34	9	24	28	15	0	0	0	4	8
36	9	26	30	18	9	6	0	5	10
38	9	26	30	20	2	0	0	6	8
40	8	26	30	21	18	0	0	8	2
42	8	30	34	24	2	6	0	10	2
44	8	32	36	26	10	6	0	12	2
46	8	34	38	28	11	0	0	14	2
48	8	34	38	31	4	0	0	16	4
50	8	36	40	34	7	6	0	18	4
52	7	38	42	38	3	0	0	0	4
54	7	40	44	43	7	6	0	3	8
56	7	42	46	48	12	0	0	7	0
58	6	44	48	53	16	6	0	10	4
60	6	44	48	59	5	0	0	13	10
62	6	46	50	65	19	6	0	17	2
64	6	46	50	73	15	0	0	0	6
66	6	50	54	79	6	6	0	3	10
68	6	52	56	87	15	0	0	7	4
70	6	54	58	96	3	6	0	14	0
72	6	56	60	104	12	6	0	0	8
74	6	58	62	118	3	0	0	17	6
76	6	58	62	135	0	0	0	1	0
78	6	60	64	151	17	6	0	14	6
80	5	62	66	162	0	0	0	—	—
82	5	64	68	175	10	0	0	—	—
84	5	66	70	184	16	6	0	—	—

Above prices include one set of spare Teeth, two spare Holders and a Wrench. Saws made any thicker than gauge listed are charged extra as shown in column 6. No extra charge is made for Saws one gauge thinner than gauge listed. **We do not warrant Saws more than one gauge thinner than standard.** Saws for Double Edger work should be one gauge thicker than standard listed above. For prices of Teeth and Holders, and also for general conditions governing the sale of Inserted Tooth Circular Saws, see page 16.

**Extra for Inserted Tooth Circular Saws with more than standard number of teeth. 10/- per extra tooth.**

## SPARE TEETH, HOLDERS and WRENCHES.

**Teeth—**

Nos. 2, 2½, 3, 33, 3D .. .. . 20/8 per 100.

**Holders—**

Nos. 2, 2½, 3, 33, 3D .. .. . 1/10 each.

**Wrenches—**

5/- each.

### INSTRUCTIONS FOR ORDERING INSERTED TOOTH CIRCULAR SAWS.

All Teeth and Holders are marked with reference numbers to ensure correct fitment and to facilitate re-ordering. In your repeat order always refer to these reference numbers, and if possible send us samples of what you want.

When ordering, send the following information :—

- (a) Diameter of Saw.    (c) Width on cutting edge of tooth.    (e) Distance and diameter of Pin Hole.  
 (b) Gauge of Plate.    \*(d) Exact diameter of Spindle.    (f) Revolutions per minute.  
 (g) Type of Tooth required.

\* This should be carefully calipered, as upon the accuracy of the fit depends the sound working of the Saw.

### HIGH SPEED STEEL INSERTED TEETH.

For those whose work requires an Inserted Tooth of Super Quality which will retain its sharpness longer, we recommend our High Speed Steel Teeth.

Reports of tests made by our Customers with these teeth show that even when cutting very hard wood they require less frequent sharpening and show but little damage after encountering nails, etc.

Our High Speed Steel Teeth are specially tempered so that they can be sharpened with a file.

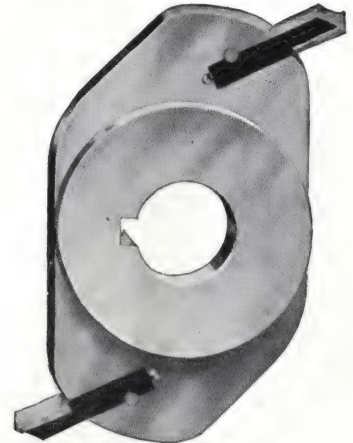
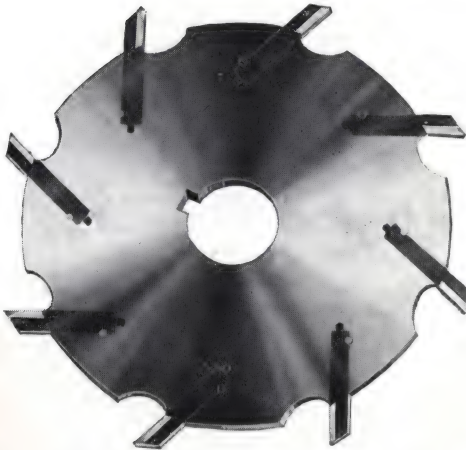
Price of all Sizes .. 53/- per 100 Teeth.

Our High Speed Steel Inserted Teeth can also be supplied in specially hard temper to meet special requirements. These must be sharpened with an emery wheel and cannot be sharpened with a file. Prices on application.

## Inserted Tooth Grooving Saws and Lock Corner Cutters.

(High Speed Steel Teeth).

Patent No. 181612.



The Inserted Tooth principle has the following important advantages :—

The use of High Speed Steel is rendered practicable at a reasonable cost, resulting in a tough cutting edge which will last 10 to 20 times longer than an ordinary tool steel edge ; the teeth can be replaced when worn down ; practically the full diameter of the tools is retained throughout their life.

The teeth are easily sharpened by grinding the tops only.

The clearance on the teeth ensures a perfect groove cutting with the grain.

Please state when ordering :—Thickness, Diameter and particulars of centre and pin holes required.

### GROOVING SAWS with high speed steel inserted teeth.

Fitted with one tooth per inch of diameter.

Width on cut Diameter.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 inch.
5" ...	56/3	60/-	63/-	70/6	73/6	105/-	132/-	165/-	202/6 each.
6" ...	67/6	71/3	75/-	82/6	86/3	123/9	154/6	195/-	240/- "
7" ...	78/-	81/9	85/6	93/-	96/-	142/6	177/-	225/-	277/6 "
8" ...	89/3	93/-	97/6	108/9	111/-	162/9	202/6	255/-	315/- "
9" ...	97/6	102/-	108/9	121/6	123/9	183/9	225/-	285/-	352/6 "
10" ...	108/-	114/9	121/6	136/6	138/9	206/3	247/6	315/-	390/- "
11" ...	120/-	127/6	135/-	148/6	153/9	228/9	270/-	345/-	427/6 "
12" ...	131/3	138/9	146/3	161/3	165/-	251/3	300/-	375/-	465/- "
14" ...	157/6	165/-	172/6	195/-	202/6	285/-	345/-	435/-	540/- "
15" ...	—	172/6	187/6	217/6	225/-	315/-	375/-	472/6	585/- "
16" ...	—	187/6	202/6	240/-	247/6	345/-	405/-	510/-	630/- "
17" ...	—	202/6	217/6	262/6	270/-	375/-	435/-	547/6	675/- "
18" ...	—	217/6	232/6	285/-	292/6	405/-	465/-	585/-	720/- "

### LOCK CORNER CUTTERS with two high speed steel inserted teeth.

Width on cut Diameter.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 inch.
6" ...	40/6	42/9	45/-	51/-	52/6	75/-	93/-	117/-	144/- each.
7" ...	46/6	49/6	52/6	56/3	57/9	85/6	105/-	135/-	165/- "
8" ...	54/-	56/3	58/6	65/3	66/9	97/6	120/-	153/-	189/- "
9" ...	58/6	62/3	65/3	72/-	75/-	112/6	138/9	172/6	217/6 "

### SPARE TEETH for above saws and cutters.

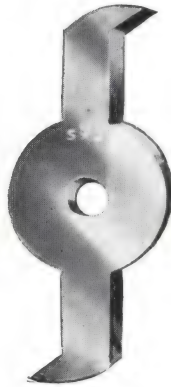
Up to $\frac{1}{4}$ "	$\frac{5}{16}$ " to $\frac{3}{8}$ "	$\frac{7}{16}$ " to $\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1" on cut.
7/3	8/3	10/3	14/6	19/3	24/3	30/6 each.

# GROOVING SETS OR DADO HEADS.

FOR ALL WIDTHS OF GROOVES FROM  $\frac{1}{8}$ " to 2".



Outside Cutter (Right Hand).



Inside Cutter.



Outside Cutter (Left Hand).

Highly recommended for the best class of work, for cutting smoothly-finished grooves both with and across the grain of any hard or soft timbers. The set is made up so that with the minimum amount of trouble, grooves of varying widths can be cut. Each set consists of two outside Cutters,  $\frac{1}{8}$ " thick, fitted with cutting and cleaner teeth, and several inside Cutters of various thicknesses— $\frac{1}{16}$ ",  $\frac{1}{8}$ ", or  $\frac{1}{4}$ " thick, so that by simply adding to or taking away these, any width of groove, measurable in eighths or sixteenths of an inch wide can be made. All cutters are sharpened ready for use, and are easily kept in order.

The Groover is made up in sets, as follows:—

Set No.	1	2	3	4	5	6						
For Grooves	$\frac{1}{8}$ "— $\frac{3}{8}$ "	$\frac{1}{8}$ "— $\frac{5}{8}$ "	—	—	—	—	wide, rising by $\frac{1}{8}$ "					
"	—	—	$\frac{1}{8}$ "— $\frac{3}{4}$ "	$\frac{1}{8}$ "—1	$\frac{1}{8}$ "— $1\frac{1}{2}$ "	$\frac{3}{2}$ "—2	"					
Diameter	6	7	8	9	10	11	12	14	16	18	20	inches.
No. 1 Set	63/3	72/3	81/6	90/9	104/6	119/—	138/3	163/—	189/9	204/3	241/—	per set.
No. 2 Set	76/3	86/—	96/3	106/3	121/—	136/6	157/6	187/—	219/—	237/3	277/—	"
No. 3 Set	91/3	102/6	114/6	126/6	143/—	160/3	183/3	216/6	251/—	275/—	321/—	"
No. 4 Set	104/—	116/3	129/3	142/3	159/6	178/—	202/6	240/—	280/6	308/—	362/—	"
No. 5 Set	130/—	144/—	158/6	173/3	192/6	212/6	241/—	288/—	339/—	374/—	444/6	"
No. 6 Set	155/6	171/3	188/—	204/3	225/6	247/6	279/6	335/6	398/—	440/—	527/—	"

### OUTSIDE CUTTERS.

Diameter	6	7	8	9	10	11	12	14	16	18	20	inches.
Thickness $\frac{1}{8}$ "	27/—	31/—	35/—	39/6	46/—	53/—	62/—	73/6	86/3	91/6	108/6	each
" $\frac{3}{16}$ "	32/—	36/6	43/6	50/6	57/3	68/9	75/6	82/6	91/6	99/—	119/—	"
" $\frac{1}{4}$ "	46/—	53/—	62/—	71/—	80/6	89/6	110/—	137/6	165/—	176/—	203/6	"
" $\frac{5}{16}$ "	59/6	68/9	79/9	91/6	105/3	119/—	133/—	146/6	183/6	198/—	227/6	"
" $\frac{3}{8}$ "	72/6	81/9	90/9	101/—	114/9	128/6	147/9	172/6	199/—	218/—	253/—	"
" $\frac{7}{16}$ "	81/9	90/9	100/—	110/—	126/—	139/6	160/6	186/3	215/—	240/—	280/6	"
" $\frac{1}{2}$ "	90/9	102/6	114/9	126/6	143/—	160/3	183/6	216/5	251/—	286/—	330/—	"

Outside Cutters may be used alone for grooving, in which case they must be Hollow Ground.

### INSIDE CUTTERS.

Diameter	6	7	8	9	10	11	12	14	16	18	20	inches.
Thickness $\frac{1}{16}$ "	6/—	6/6	7/6	8/3	9/—	10/—	11/—	13/—	14/6	16/6	19/3	each.
" $\frac{1}{8}$ "	9/—	10/—	11/—	12/—	13/—	13/9	14/6	16/6	17/6	21/—	24/9	"
" $\frac{1}{4}$ "	13/—	13/9	14/6	15/9	16/6	17/6	19/3	24/—	29/6	33/—	41/3	"

In ordering, please give number of set, diameter and size of spindle hole.

Prices for sets for grooves over 2 inches and up to 8 inches wide will be sent upon receipt of particulars.

## HOLLOW GROUND GROOVING SAWS.



For use on Circular Saw Benches, Spindle Moulding Machines, &c., for cutting grooves perfectly square and clean in soft or hard woods from  $\frac{1}{8}$ " to 1" wide.

Standard grooves are made in sizes as below, but we can supply any other size.

	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1" Thick
Diameter 4" ...	11/4	15/4	17/-	18/4	20/4	21/-	22/8	25/4	25/4	28/-	29/4	32/- Each
" 5" ...	14/3	19/3	21/3	23/-	25/6	26/3	28/6	31/8	31/8	35/-	36/8	40/- "
" 6" ...	17/-	23/-	25/6	27/6	30/6	31/6	34/-	38/-	38/-	42/-	44/-	48/- "
" 7" ...	19/9	26/9	29/9	32/-	35/6	36/9	39/8	44/4	44/4	49/-	51/4	56/- "
" 8" ...	22/8	30/8	34/-	36/8	40/8	42/-	45/4	50/8	50/8	56/-	58/8	64/- "
" 9" ...	25/6	34/6	38/3	41/3	45/9	47/3	51/-	57/-	57/-	63/-	66/-	72/- "
" 10" ...	28/4	38/4	42/6	45/9	50/9	52/6	56/8	63/4	63/4	70/-	73/4	80/- "
" 11" ...	31/3	42/3	46/9	50/6	56/-	57/9	62/4	69/8	69/8	77/-	80/8	88/- "
" 12" ...	34/-	46/-	51/-	55/-	61/-	63/-	68/-	76/-	76/-	84/-	88/-	96/- "
" 13" ...	36/9	49/9	55/3	59/6	66/-	68/3	73/8	82/4	82/4	91/-	95/4	104/- "
" 14" ...	39/8	53/8	59/6	64/3	71/3	73/6	79/4	88/8	88/8	98/-	102/8	112/- "
" 15" ...	42/6	57/6	63/9	68/9	76/3	78/9	85/-	95/-	95/-	105/-	110/-	120/- "
" 16" ...	45/4	61/4	68/-	73/4	81/4	84/-	90/8	101/4	101/4	112/-	117/4	128/- "

Particulars required when ordering Grooving Saws :- A. Diameter. B. Thickness. C. Number and sketch of Teeth. D. Rubbing of Spindle hole and Pinhole or Keyway.

## LOCK CORNER CUTTERS.

WITH TWO TEETH.

PRECISION GROUND TO MICROMETER GAUGE.



	$\frac{3}{16}$ " & $\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "
6" diameter ...	...	20/-	23/9	26/7
7" " ...	...	22/9	26/7	29/5
8" " ...	...	25/8	29/5	32/4
9" " ...	...	28/6	32/4	35/2

State when ordering :-

- 1.—Diameter, thickness.
- 2.—Diameter of spindle.
- 3.—Revolutions of Spindle.
- 4.—Particulars of keyway or pin hole and say if cutters are to be set staggered on the spindle.
- 5.—Type of machine.

We make also a great variety of special cutters for Lock Corner Machines of all types, from 6" to 9" diameter and with any suitable number of teeth.

Prices quoted against specification.

## SPACING WASHERS FOR LOCK CORNER CUTTERS.

PRECISION GROUND TO MICROMETER GAUGE.

Prices for 10 or more of a size :-

$2\frac{1}{2}$ " diameter ...	...	6/2	6/8	6/8	7/2 Each
3" " ...	...	7/2	8/1	8/1	8/7 "
$3\frac{1}{2}$ " " ...	...	8/7	9/-	9/-	9/6 "
4" " ...	...	9/6	10/5	10/5	10/11 "

Lots of less than 10, plus 20 per cent.

Intermediate sizes charged next size above.

When ordering give particulars as above under Lock Corner Cutters.

## CIRCULAR SWAGE SAWS.

There are three distinct types of Swage Saws in use ; these are as follows :



Right Hand Swage.

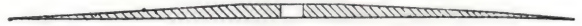


Fig. 1. Single Sided Swage Saw.

Fig. 1. This is the general type of Swage Saw. The swage, or bevel, is on **one side** of the saw only, usually on the right. The swage is on a straight line and extends from the point of the tooth to the collar or flat part of the centre.



Fig. 2. Double Sided Swage Saw.

Fig. 2. This type has a bevel, or swage on **both sides** of the saw. In other respects it is similar to the saw shown above.

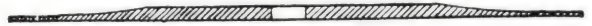
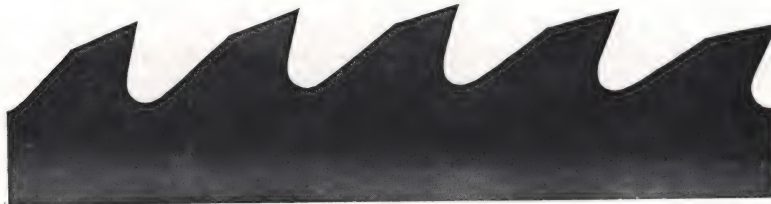


Fig. 3. Ground-off Saw.

Fig. 3. Ground-off Saws have a thickness on tooth of from 14 to 20 Gauge (0.9 to 2 m/m), and this thickness is parallel to the bottom of the gullet. The thickness then gradually increases until it joins the flat central portion of the saw, which is larger, and also thicker than ordinary swage saws.



Shape of Tooth No. 21

The above shows the standard shape of tooth for Swage Circular Saws: our No. 21. The standard space of tooth is as follows :

18" to 22" diam.,	$\frac{3}{4}$ " space.	450 to 550 m/m diam.	19 m/m space.
Up to 28" "	$\frac{7}{8}$ " "	Up to 600 m/m "	22 m/m "
Up to 34" "	1" "	Up to 850 m/m "	25 m/m "
Up to 42" "	$1\frac{1}{8}$ " "	Up to 1050 m/m "	29 m/m "

### PARTICULARS REQUIRED WHEN ORDERING SWAGE CIRCULAR SAWS.

- (a) Diameter of the Saw. (b) Thickness at centre. (c) Thickness on Tooth.  
If no thickness is indicated, we shall make the Saw 19.G. (1 m/m) on tooth.
- (d) Diameter of centre hole.
- (e) Details of pin-hole or keyway required.
- (f) Depth of swage or diameter of collar.
- (g) Whether the swage (bevel) is to be on the RIGHT or the LEFT side of the Saw, from the point of view of man standing in front of bench, with the saw running towards him.  
(NOTE : The illustration above shows a Saw with swage or bevel on the RIGHT.  
Right hand saws supplied unless otherwise specified.)
- (h) Revolutions per minute.
- (i) Nature of timber to be cut.

# CIRCULAR SWAGE SAWS.

INCLUDING SWAGE, GROUND-OFF & TAPER GROUND SPLITTING SAWS.

STANDARD PRICE LIST; SHILLINGS AND PENCE PER SAW.

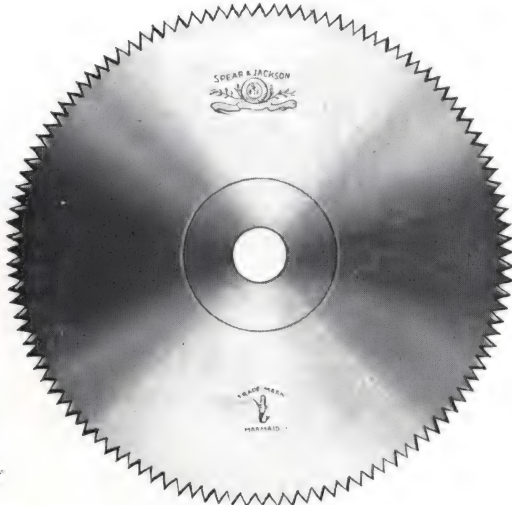
<p><b>18" DIAMETER. 450 m/m.</b></p> <p>Thickness } 6 7 8 9 10 11 G at centre } 5.2 4.6 4.2 3.8 3.4 3.1m/m</p> <p>SWAGE : in. m/m. 4 100 39/- 37/6 36/- 33/6 32/6 31/6 5 125 40/- 38/6 37/- 34/6 33/6 32/6 6 150 41/- 39/6 38/- 35/6 34/6 33/6</p>		<p><b>20" DIAMETER. 500 m/m.</b></p> <p>Thickness } 6 7 8 9 10 11 G at centre } 5.2 4.6 4.2 3.8 3.4 3.1m/m</p> <p>SWAGE : in. m/m. 4 100 46/3 44/3 42/3 40/9 39/3 38/- 5 125 47/6 45/6 43/6 42/- 40/6 39/3 6 150 48/9 46/9 44/9 43/3 41/9 40/6 7 175 50/- 48/- 46/- 44/6 43/- 41/9</p>		<p><b>22" DIAMETER. 550 m/m.</b></p> <p>Thickness } 6 7 8 9 10 11 G at centre } 5.2 4.6 4.2 3.8 3.4 3.1m/m</p> <p>SWAGE : in. m/m. 4 100 50/6 48/- 45/6 44/- 42/6 41/- 5 125 52/- 49/6 47/- 45/6 44/- 42/6 6 150 53/6 51/- 48/6 47/- 45/6 44/- 7 175 55/- 52/6 50/- 48/6 47/- 45/6 8 200 56/6 54/- 51/6 50/- 48/6 47/-</p>	
<p><b>24" DIAMETER. 600 m/m.</b></p> <p>Thickness } 5 6 7 8 9 10 G at centre } 5.6 5.2 4.6 4.2 3.8 3.4m/m</p> <p>SWAGE : in. m/m. 6 150 63/- 60/6 59/- 55/- 54/- 52/- 7 175 64/6 62/- 60/6 56/6 55/6 53/6 8 200 66/- 63/6 62/- 58/- 57/- 55/- 9 230 67/6 65/- 63/6 59/6 58/6 56/6</p>		<p><b>26" DIAMETER. 650 m/m.</b></p> <p>Thickness } 5 6 7 8 9 10 G at centre } 5.6 5.2 4.6 4.2 3.8 3.4m/m</p> <p>SWAGE : in. m/m. 6 150 75/9 73/9 70/3 68/3 64/9 62/9 7 175 77/6 75/6 72/- 70/- 66/6 64/6 8 200 79/3 77/3 73/9 71/9 68/3 66/3 9 230 81/- 79/- 75/6 73/6 70/- 68/- 10 250 82/9 80/9 77/3 75/3 71/9 69/9</p>		<p><b>28" DIAMETER. 700 m/m.</b></p> <p>Thickness } 5 6 7 8 9 10 G at centre } 5.6 5.2 4.6 4.2 3.8 3.4m/m</p> <p>SWAGE : in. m/m. 6 150 86/9 81/9 77/9 75/3 73/3 68/9 7 175 88/6 83/6 79/6 77/- 75/- 70/6 8 200 90/3 85/3 81/3 78/9 76/9 72/3 9 230 92/- 87/- 83/- 80/6 78/6 74/- 10 250 93/9 88/9 84/9 82/3 80/3 75/9 11 280 95/6 90/6 86/6 85/- 82/- 77/6</p>	
<p><b>30" DIAMETER. 750 m/m.</b></p> <p>Thickness } 3 4 5 6 7 8 G at centre } 6.6 6.1 5.6 5.2 4.6 4.2m/m</p> <p>SWAGE : in. m/m. 8 200 106/- 103/- 98/- 94/6 91/- 84/6 9 230 108/- 105/- 100/- 96/6 93/- 86/6 10 250 110/- 107/- 102/- 98/6 95/- 88/6 11 280 112/- 109/- 104/- 100/6 97/- 90/6 12 305 114/- 111/- 106/- 102/6 99/- 92/6</p>		<p><b>32" DIAMETER. 800 m/m.</b></p> <p>Thickness } 2 3 4 5 6 7 G at centre } 7.2 6.6 6.1 5.6 5.2 4.6m/m</p> <p>SWAGE : in. m/m. 8 200 126/- 121/- 116/- 110/6 107/- 99/- 9 230 128/- 123/- 118/- 112/6 109/- 101/- 10 250 130/- 125/- 120/- 114/6 111/- 103/- 11 280 132/- 127/- 122/- 116/6 113/- 105/- 12 305 134/- 129/- 124/- 118/6 115/- 107/- 13 330 136/- 131/- 126/- 120/6 117/- 109/-</p>		<p><b>34" DIAMETER. 850 m/m.</b></p> <p>Thickness } 2 3 4 5 6 7 G at centre } 7.2 6.6 6.1 5.6 5.2 4.6m/m</p> <p>SWAGE : in. m/m. 8 200 133/- 130/- 127/- 121/- 116/6 107/6 9 230 135/- 132/- 129/- 123/- 118/6 109/6 10 250 137/- 134/- 131/- 125/- 120/6 111/6 11 280 139/- 136/- 133/- 127/- 122/6 113/6 12 305 141/- 138/- 135/- 129/- 124/6 115/6 13 330 143/- 140/- 137/- 131/- 126/6 117/6 14 356 145/- 142/- 139/- 133/- 128/6 119/6</p>	
<p><b>36" DIAMETER. 900 m/m.</b></p> <p>Thickness } 2 3 4 5 6 7 G at centre } 7.2 6.6 6.1 5.6 5.2 4.6m/m</p> <p>SWAGE : in. m/m. 9 230 152/6 146/6 140/6 135/6 129/6 120/6 10 250 154/9 148/9 142/9 137/9 131/9 122/9 11 280 157/- 151/- 145/- 140/- 134/- 125/- 12 305 159/3 153/3 147/3 142/3 136/3 127/3 13 330 161/6 155/6 149/6 144/6 138/6 129/6 14 356 163/9 157/9 151/9 146/9 140/9 131/9 15 380 166/- 160/- 154/- 149/- 143/- 134/-</p>		<p><b>38" DIAMETER. 950 m/m.</b></p> <p>Thickness } 2 3 4 5 6 7 G at centre } 7.2 6.6 6.1 5.6 5.2 4.6m/m</p> <p>SWAGE : in. m/m. 9 230 182/6 177/- 171/- 162/- 156/- 148/- 10 250 184/9 179/3 173/3 164/3 158/3 150/3 11 280 187/- 181/6 175/6 166/6 160/6 152/6 12 305 189/3 183/9 177/9 168/9 162/9 154/9 13 330 191/6 186/- 180/- 171/- 165/- 157/- 14 356 193/9 188/3 182/3 173/3 167/3 159/3 15 380 196/- 190/6 184/6 175/6 169/6 161/6 16 405 198/3 192/9 186/9 177/9 171/9 163/9</p>		<p><b>40" DIAMETER. 1 METRE.</b></p> <p>Thickness } 2 3 4 5 6 7 G at centre } 7.2 6.6 6.1 5.6 5.2 4.6m/m</p> <p>SWAGE : in. m/m. 9 230 197/- 190/6 183/- 174/6 168/6 161/- 10 250 199/6 193/- 185/6 177/- 171/- 163/6 11 280 202/- 195/6 188/- 179/6 173/6 166/- 12 305 204/6 198/- 190/6 182/- 176/- 168/6 13 330 207/- 200/6 193/- 184/6 178/6 171/- 14 356 209/6 203/- 195/6 187/- 181/- 173/6 15 380 212/- 205/6 198/- 189/6 183/6 176/- 16 405 214/6 208/- 200/6 192/- 186/- 178/6 17 438 217/- 210/6 203/- 194/6 188/6 181/-</p>	
<p><b>42" DIAMETER. 1050 m/m.</b></p> <p>Thickness } 1 2 3 4 5 6 G at centre } 7.6 7.2 6.6 6.1 5.6 5.2m/m</p> <p>SWAGE : in. m/m. 12 305 238/6 226/6 216/6 211/6 202/6 198/- 13 330 241/- 229/- 219/- 214/- 205/- 200/6 14 356 243/6 231/6 221/6 216/6 207/6 203/- 15 380 246/- 234/- 224/- 219/- 210/- 205/6 16 405 248/6 236/6 226/6 221/6 212/6 208/- 17 430 251/- 239/- 229/- 224/- 215/- 210/6 18 455 253/6 241/6 231/6 226/6 217/6 213/-</p>		<p><b>44" DIAMETER. 1100 m/m.</b></p> <p>Thickness } 1 2 3 4 5 6 G at centre } 7.6 7.2 6.6 6.1 5.6 5.2m/m</p> <p>SWAGE : in. m/m. 12 305 276/6 263/6 258/6 253/6 248/- 237/- 13 330 279/- 266/- 261/- 256/- 250/6 239/6 14 356 281/6 268/6 263/6 258/6 253/- 242/- 15 380 284/- 271/- 266/- 261/- 255/6 244/6 16 405 286/6 273/6 268/6 263/6 258/- 247/- 17 430 289/- 276/- 271/- 266/- 260/6 249/6 18 455 291/6 278/6 273/6 268/6 263/- 252/- 19 482 294/- 281/- 276/- 271/- 265/6 254/6</p>		<p><b>46" DIAMETER. 1150 m/m.</b></p> <p>Thickness } 1 2 3 4 5 6 G at centre } 7.6 7.2 6.6 6.1 5.6 5.2m/m</p> <p>SWAGE : in. m/m. 12 305 297/6 287/6 275/6 270/6 258/- 250/- 13 330 300/6 290/6 278/6 273/6 261/- 253/- 14 356 303/6 293/6 281/6 276/6 264/- 256/- 15 380 306/6 296/6 284/6 279/6 267/- 259/- 16 405 309/6 299/6 287/6 282/6 270/- 262/- 17 430 312/6 302/6 290/6 285/6 273/- 265/- 18 455 315/6 305/6 293/6 288/6 276/- 268/- 19 482 318/6 308/6 296/6 291/6 279/- 271/- 20 510 321/6 311/6 299/6 294/6 282/- 274/-</p>	

The above prices are for saws of a thickness of 19 G (1m/m.) at tooth. For saws THINNER at tooth than this the price must be increased by 4d. per foot (1/1 per Metre) of the Diameter, for each gauge thinner than 19 G.

Saws, thinner at centre than shown in price list, are charged at the price of the thinnest gauge listed.

**IMPORTANT NOTE.**—See particulars required as specified on page 20.

## Hollow Ground Circular Saws.



TYPE A.  
For Cross Cutting or Mitreing.



TYPE M.  
For Cutting Plywood.

Section Shewing Hollow Grinding.

Section Shewing Hollow Grinding.

### FOR FINE CUTTING AND EXTRA SMOOTH FINISH IN HARD OR SOFT WOODS.

These saws are hollow ground, to run without set, thus doing away in many instances with the necessity of subsequent jointing or planing.

They are particularly suitable for Cabinet, Furniture and Block Flooring Factories, Wireless and Photographic Apparatus, etc.

These saws can be supplied for Mitreing, or for Ripping and Cross-cutting. We would, however, draw special attention to the fact that Saws with Cleaner Teeth will not cut as fast as Saws without Cleaner Teeth, and their use is not recommended where output is of more importance than smoothness of cut.

It is very important to see that the teeth are kept keenly sharp, and the bevel filing must be maintained exactly as when received from the factory; otherwise there is a tendency to scorch the wood, especially if the work is crowded on to the saw.



**PRICE LIST FOR "MERMAID" SAWS.**

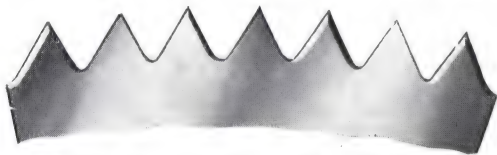
Diameter in inches.	Gauge at teeth.	Gauge at edge of collar.	Gauge at centre hole.	Price Each.		Extra for each gauge thicker.
				With A1, A3 or WXT tooth.	With B1 or B2 tooth.	
6	16	19	16	22/6	24/3	4d.
8	15	18	15	28/3	30/6	5½d.
10	14	17	14	31/-	38/6	11d.
12	13	16	13	33/3	47/6	1/4
14	12	15	12	37/-	56/6	1/10
16	12T	15T	12T	42/6	66/6	2/3
18	11	14	11	48/6	78/6	2/9
20	11T	14T	11T	56/-	92/6	3/4
22	10	13	10	62/6	109/-	4/-
24	10T	13T	10T	68/6	126/-	4/9

**With M tooth for cutting plywood:**

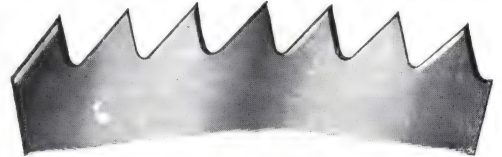
Diameter in inches.	Gauge at teeth.	Gauge at edge of collar.	Gauge at centre hole.	Price each.	Extra for each gauge thicker.
6	14	17	14	23/3	4d.
8	14	17	14	30/6	5½d.
10	13	16	13	38/-	11d.
12	12	15	12	45/-	1/4
14	11	14	11	54/-	1/10
16	11	14	11	63/-	2/3
18	10	13	10	72/-	2/9
20	10	13	10	81/-	3/4
22	9	12	9	90/-	4/-
24	9	12	9	99/-	4/9

With initial orders for M tooth saws we supply a re-sharpening template at 6/-. To ensure initial results being maintained it is essential that this template is worked to when re-sharpening.

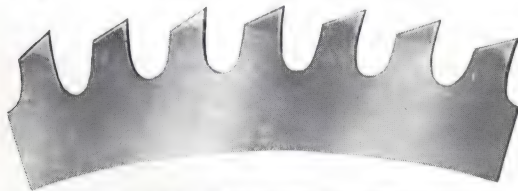
**When ordering please state** :—Dimensions of Centre and pin holes (or send rubbing). We cannot guarantee efficiency of these saws if centre or pinholes are altered after receipt.  
Diameter of collar on saw spindle. Style of teeth required. If for cutting hard or soft wood.



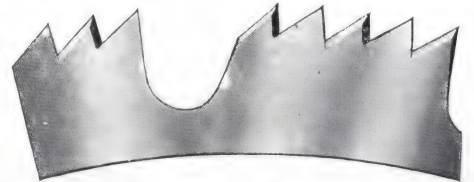
**A1 FOR CROSSCUTTING & MITREING.**



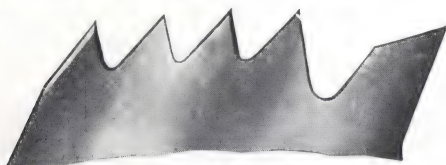
**A3 FOR RIPPING & FAST CROSSCUTTING.**



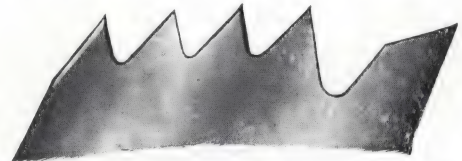
**WXT FOR CLEAN & SMOOTH CROSSCUTTING.**



**M FOR CUTTING PLYWOOD.**



**B1 FOR FINE CROSSCUTTING.**



**B2 FOR FINE RIPPING & CROSSCUTTING.**

ESTABLISHED 1774

**Spear & Jackson Ltd.**  
AETNA WORKS SHEFFIELD

OVER 160 YEARS AGO



MERMAID

**“MERMAID” SUPER-QUALITY  
NICKEL ALLOY STEEL  
WIDE BANDSAWS & RE-SAWS.**



MERMAID



**“MERMAID” QUALITY WIDE BANDSAWS AND RESAWS** are made of expensive Alloy Steel and must not be confused with the ordinary Standard Quality Bandsaws.

This Alloy contains a certain percentage of nickel which gives to our special analysis a toughness not obtainable by any other alloy.

From our own tests and from tests carried out in all parts of the World on the hardest timbers and in the most up-to-date Mills, Spear & Jackson's "Mermaid" Quality Alloy Steel Bandsaws are without doubt the finest in the World. Our Saws are sent out with **No Variation** in thickness. **Uniform in Tension** and guaranteed to give satisfaction.

**When ordering Wide Bandsaws state:** Type and make of machine (Vertical or Horizontal Bandmill or Re-Saw). Maximum length and width of Saw. Thickness (gauge). Right or left hand (i.e., does the saw run clockwise or anti-clockwise when you are standing facing the cutting edge of the blade). If crown or flat face; if the former please state the amount of crown. General class of timber to be cut—very hard, hard, or soft. If required spring or swage set. Average feed speed. If straight or round back is required (unless instructed otherwise we send all saws with staight back). Diameter of circle you are at present using for tension. Shape of tooth required.

For Saws 14 inch to 18 inch wide Single or Double Cut, please write our Canadian Factory.

ADDRESS YOUR LETTERS:—

**SPEAR & JACKSON, (B.C.) LTD.,** Aetna Saw Works, Granville Island,

CABLES: SPEAR, VANCOUVER, CANADA.

**VANCOUVER, B.C.**

**“MERMAID” SUPER-QUALITY  
NICKEL ALLOY STEEL  
WIDE BANDSAWS & RE-SAWS**

BRAZED, SWAGE OR SPRING SET AND SHARPENED.

Width inches	Standard Gauge	Price Per Foot	Width inches	Standard Gauge	Price Per Foot
		s. d.			s. d.
3	18—20	7 0	6½—7	16—18	17 0
3½	18—20	8 0	7½—8	14—16	19 0
4	17—19	10 0	8½—9	14—16	21 6
4½	17—19	11 0	10	14—16	24 0
5	17—19	12 0	11	14—16	27 0
5½	17—19	13 6	12	13—15	30 0
6	17—19	15 0			

Saws of odd lengths charged as nearest 6" longer.

Saws of intermediate width charged as next wider width listed.

For Saws other than standard gauges, add 5 per cent. for each gauge thicker than standard.

No extra charge for saws one gauge thinner than standard; over one gauge thinner than standard add 5 per cent. per gauge.

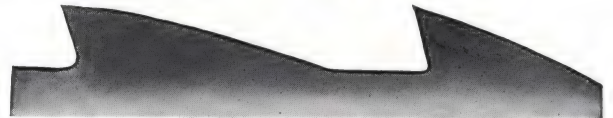
Double edge saws 10 per cent. extra.

Saws toothed only or toothed, straightened and tensioned, &c., cut to length or in straightened coils, not warranted. Prices on application.

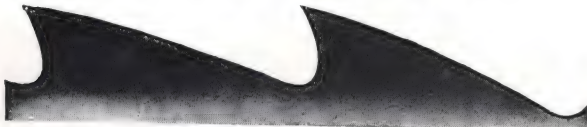
**Standard Shapes & Spaces of Teeth.**



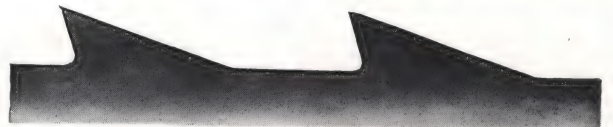
Shape J. Space  $\frac{3}{4}$ " to 2". Depth  $\frac{3}{16}$ " to  $\frac{7}{8}$ ".



Shape D. Space  $1\frac{1}{4}$ " to 3". Depth  $\frac{1}{4}$ " to 1".



Shape K. Space  $1\frac{1}{2}$ " to  $3\frac{1}{2}$ ". Depth  $\frac{3}{8}$ " to 1".



Shape A. Space  $1\frac{1}{4}$ " to 2". Depth  $\frac{1}{4}$ " to  $\frac{3}{8}$ ".



Shape C. Space  $1\frac{1}{2}$ " to  $2\frac{1}{2}$ ". Depth  $\frac{1}{4}$ " to  $\frac{3}{4}$ ".



Shape O. Space  $1\frac{1}{2}$ " to  $2\frac{1}{2}$ ". Depth  $\frac{3}{8}$ " to  $\frac{7}{8}$ ".



Shape RP.  
As used in Argentine.

**“ÆTNA” BRAND**

STANDARD QUALITY

**WIDE BANDSAWS and  
RESAWS.**



This is the Standard Sheffield Quality which has found favour amongst Sawmillers who are sawing at moderate feed speeds.

These saws are manufactured and finished with our usual care and will be found to be superior to the Standard Sheffield Quality and for the average sawmill we can thoroughly recommend them as a reliable saw.

For Price List see Page 25 and discount sheet.

**NOTE.**—“ÆTNA” Brand Bandsaws are made up to 8” wide only. They can be supplied with either crown or straight back.



“Leapfrog”

**“LEAPFROG” QUALITY**

BANDSAWS BRAZED, LEVELLED, SWAGE OR SPRING SET, AND SHARPENED.



“Leapfrog”

**PRICE LIST.**

Width inches	Standard Gauge	Price Per Yard	Width inches	Standard Gauge	Price Per Yard
		s. d.			s. d.
3	18—20	7 0	6	16—19	24 0
3½	18—20	9 2	6½	16—19	30 0
4	18—20	12 0	7	16—19	30 0
4½	17—19	16 0	7½	16—18	36 0
5	17—19	20 0	8	16—18	36 0
5½	17—19	22 0			

Saws of odd lengths charged as nearest 6” longer.

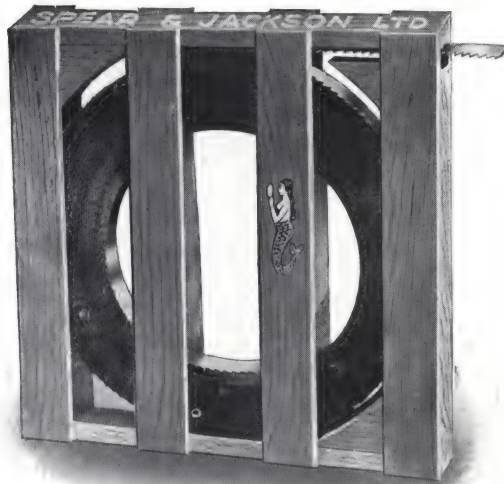
Saws of intermediate width charged as next wider width listed.

For Saws thicker than standard gauges, add 5 per cent. for each gauge thicker or thinner than standard.

Double edge saws 10 per cent extra.

Saws toothed only or toothed, straightened and tensioned, &c., cut to length or in straightened coils, not warranted. Prices on application.

For toothing of “ÆTNA” and “LEAPFROG” Bandsaws see page 25.



## SPEAR & JACKSON'S "MERMAID" QUALITY NARROW BANDSAWS FOR WOOD

*Our Narrow Bandsaws are noted all the world over for*

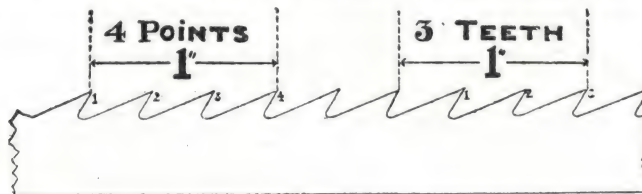
- Freedom from Cracks.
- Sharp Cutting Edges.
- Long Life between sharpenings.
- Evenness of Temper.

WIDTH		THICKNESS		Standard No. of Points Per Inch	PRICE PER YARD	PRICE PER METRE	
Inches	Millimeters	Stub's Gauge	Millimeters			s.	d.
1 1/4	31.8	22	0.7	7	1	2	3 1/2
1 1/2	38	22	0.7	7	1	2	3 1/2
1 3/8	41.3	22	0.7	6	1	4	5 1/2
1 1/2	38	21	0.8	5 1/2	1	6	8
1 5/8	44.5	21	0.8	5	1	8	10
1 7/8	47.8	21	0.8	4 1/2	1	10	0
1	25	21	0.8	4 1/2	2	0	2 1/2
1 1/4	32	20	0.9	4 1/2	2	8	11
1 3/8	35	20	0.9	4	3	0	3 1/2
1 1/2	40	20	0.9	4	3	4	8
1 5/8	42	20	0.9	" pt. to pt.	3	8	0
1 3/4	45	20	0.9	" "	4	0	5
2	50	19	1.07	5 1/2	4	8	5 1/2
2 1/4	60	19	1.07	5 1/2	5	0	6
2 1/2	65	19	1.07	5 1/2	5	6	0 1/2
2 3/4	70	19	1.07	5 1/2	6	2	9 1/2

Saws SWAGE SET charged 5% extra. Saws with RIVER PLATE teeth charged 12 1/2% extra.  
Saws one gauge thinner or thicker than standard are supplied without extra charge.  
Saws more than one gauge thinner or thicker than standard are charged 5% extra per gauge.  
Odd inches in length charged as next half-foot longer.

Saws brazed, set and sharpened—if shorter than 12 ft. charged as 12 ft.

When ordering, say if required: **A.** Toothed only. **B.** Toothed, set and sharpened.  
**C.** Tensioned, toothed, set and sharpened. **D.** Saws brazed ready for use.



Note.—There is one more point per inch than teeth per inch.

Orders for full coils (200 feet and upwards) are sent in special crates as illustrated above, suitable for use in warehouses. No extra charge is made for these crates.

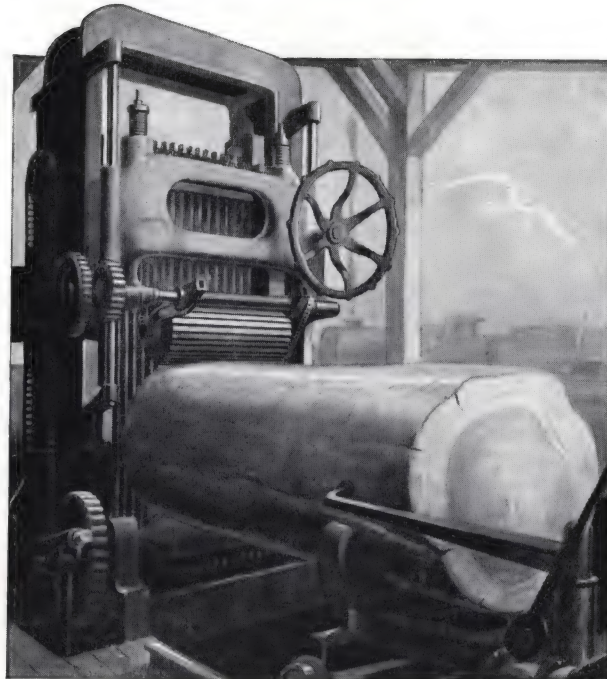
## DEAL FRAME SAWS, MILL WEBS or GANGSAWS.

### Super Alloy Steel Quality.

#### FOR MODERN HIGH-SPEED FRAMES

Owing to the more intensive competition in the Timber Trade, Sawmills to-day are paying greater attention than ever before to increasing production, improving the quality of sawing and the reduction of costs.

This has brought, in its turn, a demand for modern machines which, if they are to be efficiently worked, must necessarily be fitted with higher quality Gangsaws.



As large manufacturers of High Grade Gangsaws we are meeting this demand and our saws are achieving the desired results all over the World.

Each sawmilling area has been systematically investigated by our Technical Engineer. The correct hardness, temper, tooth, etc., has been standardised, for soft pine, knotty mountain pine, hard oaks, beeches, and so on.

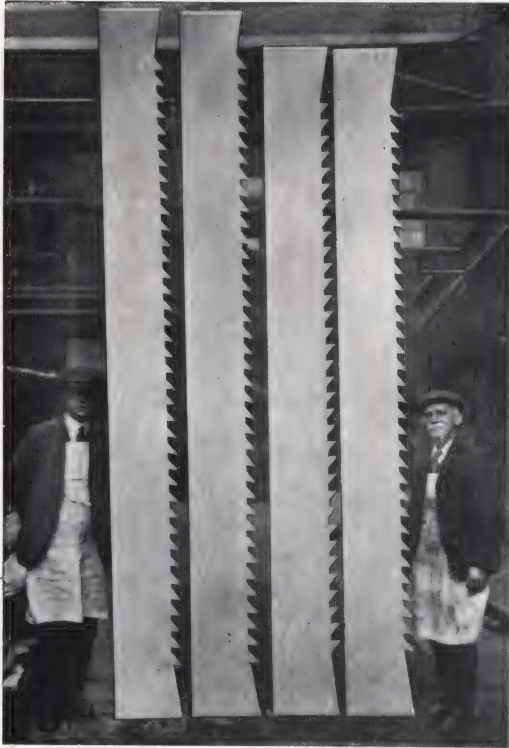
You will find it to your advantage to use our Alloy Steel Gangsaws : in ratio to performance, they are no dearer than ordinary Saws.

No doubt there will be imitations of our Alloy Steel Saws on the market, but these must not be confused with Spear & Jackson's Alloy Steel Gangsaws, which have won their way into the largest Mills on **merit of performance.**

**“MERMAID” QUALITY  
MILLWEBS - GANGSAWS - FRAMESAWS**

PRICES PER SAW, WITHOUT END PLATES, NOT SET or SHARPENED, IN SHILLINGS and PENCE.

LENGTHS		3' 4"	3' 8"	4' 0"	4' 4"	4' 8"	5' 0"	5' 4"	5' 8"	6' 0"	6' 4"	6' 8"
		1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000 <sub>m/m</sub>
WIDTHS & THICKNESSES	Ins. x Gauge	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
	Millimetres											
4" x 19 G	100 x 1.0	8 6	9 4	10 2	11 0	11 10	12 9	13 6	14 6	15 4	16 2	17 0
	18 G	8 10	9 8	10 6	11 6	12 4	13 3	14 2	15 0	16 0	16 9	17 6
	17 G	9 2	10 0	11 0	11 10	12 9	13 8	14 6	15 6	16 6	17 4	18 3
	16 G	9 3	10 3	11 2	12 0	13 0	14 0	14 10	15 9	16 8	17 6	18 6
4 1/4" x 18 G	110 x 1.2	8 8	9 6	10 6	11 3	12 3	13 0	14 0	14 10	15 9	16 6	17 6
	17 G	9 6	10 6	11 4	12 3	13 3	14 2	15 0	16 0	17 0	18 0	18 10
	16 G	9 8	10 8	11 8	12 6	13 6	14 6	15 6	16 6	17 6	18 6	19 4
	15 G	10 0	11 0	12 0	13 0	13 10	14 10	15 10	16 10	17 10	18 10	19 10
4 1/2" x 17 G	115 x 1.4	9 9	10 8	11 8	12 8	13 8	14 6	15 6	16 6	17 6	18 6	19 6
	16 G	10 0	10 10	11 10	12 10	13 10	14 10	15 9	16 9	17 8	18 8	19 8
	15 G	10 2	11 0	12 0	13 0	14 2	15 2	16 2	17 2	18 2	19 2	20 2
	14 G	11 0	12 0	13 0	14 0	15 2	16 3	17 6	18 6	19 6	20 6	21 9
4 3/4" x 17 G	120 x 1.4	10 0	11 0	12 0	13 0	13 10	14 10	15 10	16 10	17 10	18 10	20 0
	16 G	10 2	11 2	12 2	13 2	14 2	15 2	16 2	17 2	18 2	19 2	20 2
	15 G	10 4	11 4	12 4	13 4	14 4	15 4	16 4	17 6	18 6	19 6	20 6
	14 G	11 0	12 2	13 3	14 4	15 6	16 6	17 8	18 8	19 10	21 0	22 0
5" x 17 G	130 x 1.4	10 3	11 3	12 3	13 4	14 4	15 4	16 6	17 6	18 6	19 6	20 6
	16 G	10 6	11 6	12 6	13 6	14 8	15 8	16 9	17 10	18 10	20 0	21 0
	15 G	10 8	11 9	12 10	13 10	15 0	16 0	17 0	18 2	19 2	20 3	21 4
	14 G	11 4	12 6	13 8	14 9	16 0	17 0	18 2	19 4	20 6	21 6	22 9
5 1/2" x 17 G	140 x 1.4	10 6	11 6	12 6	13 6	14 8	15 8	16 9	17 10	18 10	20 0	21 0
	16 G	10 8	11 9	12 10	13 10	15 0	16 0	17 0	18 2	19 2	20 3	21 4
	15 G	10 10	12 0	13 0	14 0	15 3	16 4	17 6	18 6	19 6	20 8	21 9
	14 G	11 6	12 8	14 0	15 0	16 0	17 3	18 6	19 6	20 6	21 10	23 0
6" x 16 G	150 x 1.6	10 10	12 0	13 0	14 0	15 3	16 4	17 6	18 6	19 6	20 8	21 8
	15 G	11 0	12 2	13 3	14 4	15 6	16 6	17 8	18 8	19 10	21 0	22 0
	14 G	11 8	13 0	14 0	15 2	16 4	17 6	18 8	19 10	21 0	22 2	23 4
	13 GE	12 0	13 2	14 3	15 6	16 8	17 10	19 0	20 3	21 6	22 8	23 10
	13 G	12 2	13 4	14 6	15 9	17 0	18 2	19 4	20 6	21 10	23 0	24 3
6 1/4" x 15 G	160 x 1.8	11 4	12 6	13 8	14 9	16 0	17 0	18 2	19 4	20 6	21 6	22 9
	14 G	12 2	13 4	14 6	15 9	17 0	18 2	19 6	20 6	21 8	23 0	24 3
	13 GE	12 6	13 9	15 0	16 3	17 6	18 9	20 0	21 3	22 6	23 9	25 0
	13 G	13 0	14 3	15 6	16 9	18 0	19 4	20 8	22 0	23 3	24 6	25 10
6 1/2" x 14 G	165 x 2.0	12 6	13 9	15 0	16 3	17 6	18 9	20 0	21 3	22 6	23 9	25 0
	13 GE	12 10	14 2	15 6	16 8	18 0	19 3	20 6	21 10	23 0	24 3	25 8
	13 G	13 3	14 6	16 0	17 3	18 6	19 10	21 2	22 6	23 10	25 2	26 6
	12 GE	13 0	14 3	15 6	16 9	18 0	19 4	20 8	22 0	23 3	24 6	25 10
6 3/4" x 14 G	170 x 2.0	13 0	14 3	15 6	16 9	18 0	19 4	20 8	22 0	23 3	24 6	25 10
	13 GE	13 3	14 6	16 0	17 3	18 6	20 0	21 3	22 6	24 0	25 3	26 6
	13 G	13 6	15 0	16 4	17 8	19 0	20 6	21 9	23 2	24 6	25 10	27 3
	12 GE	14 6	15 10	17 3	18 9	20 2	21 6	23 0	24 6	26 0	27 4	28 9
	12 G	15 2	16 9	18 3	19 6	21 3	22 10	24 3	25 10	27 4	28 10	31 4
7" x 14 G	180 x 2.0	13 6	15 0	16 4	17 8	19 0	20 6	21 9	23 2	24 6	25 10	27 3
	13 GE	14 0	15 6	16 9	18 3	19 6	21 0	22 6	23 9	25 3	26 6	28 0
	13 G	14 6	15 10	17 3	18 9	20 2	21 6	23 0	24 6	26 0	27 4	28 9
	12 GE	15 2	16 9	18 3	19 6	21 3	22 10	24 3	25 10	27 4	28 10	31 4
	12 G	16 0	17 6	19 2	20 9	22 4	24 0	25 6	27 2	28 9	30 4	32 0
8" x 14 G	200 x 2.0	14 6	16 0	17 3	18 9	20 2	21 6	23 0	24 6	26 0	27 4	28 9
	13 GE	14 9	16 3	17 9	19 3	20 9	22 2	23 8	25 2	26 6	28 0	29 6
	13 G	15 2	16 8	18 2	19 9	21 3	22 9	24 3	25 9	27 3	28 10	30 4
	12 GE	16 0	17 6	19 2	20 9	22 4	24 0	25 6	27 2	28 9	30 4	32 0
	12 G	16 9	18 6	20 2	21 9	23 6	25 2	26 10	28 6	30 2	31 10	33 6
	11 G	17 6	19 4	21 0	22 10	25 0	26 4	28 0	29 10	31 6	33 4	35 2



## “MERMAID” QUALITY MILL, VERTICAL LOG FRAME or WATER SAWS

These Saws are designed for heavy work, such as splitting large logs, previous to breaking down on smaller machines. The teeth being generally spread set, with upset swaging tool, they are tempered so as to be easy under the swaging process; but whether required for swage or spring set, our saws can be relied on to give premier service.

FOR DETAILS REQUIRED WHEN  
ORDERING, SEE PAGE 32.

Price Per Saw, without End Plates : not set or sharpened.

Lengths ...		7 2150	7½ 2300	8 2450	8½ 2600	9 2750	9½ 2900	10 3050	10½ 3200	11 3350	11½ 3500	12 ft. 3650m/m
Widths & Thicknesses												
Inch × G	m/m	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
7 × 11	180 × 3.0	35 0	37 6	40 0	42 6	45 0						
10	3.4	37 6	40 3	43 0	45 6	48 3						
9	3.8	39 6	42 0	45 0	48 0	50 8						
8	4.2	40 6	43 6	46 4	49 3	52 0	60 6					
8 × 11	200 × 3.0	38 9	41 6	44 3	47 0	49 9	60 6	63 8				
10	3.4	39 6	42 3	45 0	48 0	50 8	61 6	64 8	73 3			
9	3.8	42 6	45 6	48 6	51 6	54 6	66 0	69 0	77 8	81 6		
8	4.2	43 9	47 0	50 3	53 0	56 0	67 0	70 8	79 9	83 6		
9 × 10	230 × 3.4	43 0	46 3	49 3	52 3	55 4	68 0	71 6	80 6	84 4	88 3	92 0
9	3.8	45 8	49 0	52 0	55 3	58 6	71 6	75 0	82 0	88 0	92 0	96 4
8	4.2	47 0	50 0	53 5	56 8	60 0	73 0	76 8	86 0	90 0	94 0	98 4
7	4.6	53 0	56 6	60 4	64 0	68 0	81 0	85 6	95 0	99 8	113 0	117 8
10 × 10	250 × 3.4	45 6	48 8	52 0	55 0	58 6	72 9	76 8	84 0	90 0	94 0	98 4
9	3.8	49 9	53 0	57 0	60 4	64 0	78 8	83 0	92 6	96 9	101 0	105 8
8	4.2	50 4	54 0	57 6	61 0	64 8	79 6	83 8	93 0	97 8	102 0	106 8
7	4.6	57 8	61 8	66 0	70 0	74 0	89 4	94 0	104 0	109 0	114 0	119 0
12 × 9	300 × 3.8	...	59 0	61 0	67 0	71 0	87 8	92 4	102 3	107 0	112 0	117 0
8	4.2	...	...	65 0	71 0	72 8	89 6	94 4	104 6	109 6	114 6	119 6
7	4.6	...	...	...	76 0	80 5	97 6	102 9	113 0	118 6	122 0	129 4
6	5.2	...	...	...	...	89 8	101 10	107 0	119 8	125 4	131 0	137 8



## “LEAPFROG” QUALITY MILL SAWS AND MILL SAW WEBS.

PRICES PER DOZEN, WITHOUT END PLATES, NOT SET OR SHARPENED.

WIDTH		3"	3½"	4"	4½"	5"	5½"	6"	6½"	7"	7½"	8"	8½"	9"	9½"	10"
Length	Gauge															
3 ft.	15	78/-	87/-	96/-	102/-	108/-	114/-	...	...	...	...	...	...	...	...	...
3½ ft.	15	90/-	102/-	114/-	120/-	126/-	134/-	143/-	152/-	...	...	...	...	...	...	...
4 ft.	15	120/-	126/-	132/-	138/-	144/-	157/-	169/-	182/-	194/-	206/-	218/-	...	...	...	...
4½ ft.	14	132/-	138/-	144/-	150/-	165/-	180/-	190/-	202/-	216/-	228/-	240/-	...	...	...	...
5 ft.	14	168/-	174/-	180/-	192/-	204/-	213/-	222/-	234/-	246/-	258/-	270/-	...	...	...	...
5½ ft.	14	...	...	212/-	220/-	228/-	237/-	246/-	258/-	264/-	270/-	295/-	...	...	...	...
6 ft.	13	...	...	220/-	230/-	240/-	252/-	264/-	276/-	288/-	300/-	330/-	375/-	420/-	...	...
6½ ft.	13	...	...	270/-	276/-	284/-	292/-	300/-	309/-	318/-	336/-	360/-	405/-	450/-	...	...
7 ft.	13	...	...	276/-	282/-	290/-	298/-	322/-	332/-	342/-	354/-	390/-	435/-	480/-	525/-	570/-
7½ ft.	13	...	...	...	...	345/-	355/-	370/-	395/-	420/-	445/-	470/-	515/-	560/-	605/-	650/-
8 ft.	12	...	...	...	...	395/-	405/-	420/-	445/-	470/-	495/-	520/-	565/-	610/-	655/-	700/-
8½ ft.	12	...	...	...	...	...	455/-	470/-	495/-	520/-	545/-	570/-	615/-	660/-	705/-	750/-
9 ft.	11	...	...	...	...	...	...	520/-	545/-	570/-	595/-	620/-	680/-	740/-	800/-	860/-
9½ ft.	11	...	...	...	...	...	...	570/-	595/-	620/-	645/-	670/-	730/-	790/-	850/-	910/-
10 ft.	11	...	...	...	...	...	...	620/-	645/-	670/-	695/-	720/-	780/-	840/-	900/-	960/-

**HORIZONTAL SAWS 10% EXTRA ON ABOVE STANDARD LIST PRICES.**

All Saws and Webs over even feet or half foot are charged at next 6" longer.

In Metric Measurements an allowance may be made in length of NOT MORE THAN 12½ millimetres above even feet or half foot.

Odd parts of widths in inches are charged at next size larger.

Taper Webs are charged at widest part of web.

5% per gauge extra is charged for thicker gauges.

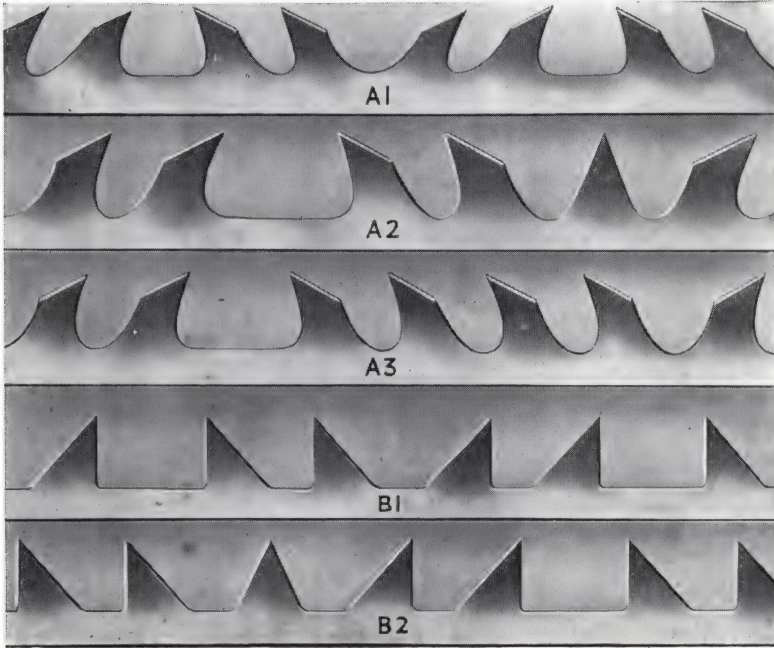
Special Shaped Teeth are charged extra.

All Saws—Holes and Plates (Buckles) are charged extra.

Setting and Sharpening is charged 3d. per foot extra.

# HORIZONTAL LOG FRAME SAWS.

PRICES, as shown on page 29 extras as printed below



Are generally used for cutting valuable furniture woods, and we have a specially Refined Alloy Steel for this class of saw, so that they can be made in extra thin gauges, thereby saving much useful timber.

They can also be supplied ground thin to back, and so save saw kerf by requiring less set on the teeth.

Saws with reversed teeth or in sets of two or four add 10% to list price.

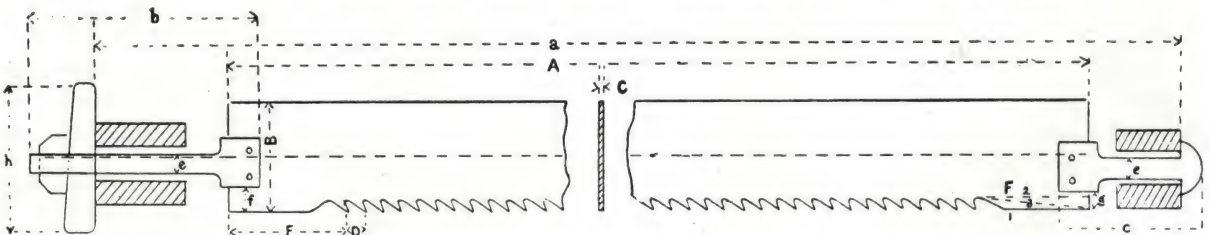
Saws with special shaped teeth at extra cost.

Saws wider and thicker than shown: for prices see Mill Saws.

Saws with plated ends charged extra on cost.

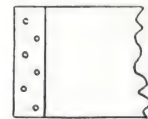
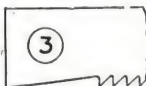
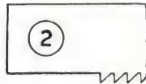
If taper ground thin to back add 5% to list price for each gauge reduced.

## INSTRUCTIONS FOR ORDERING FRAME SAWS, MILL SAWS, WEBS, &c.



- A. Length of Saw.
- B. Width of Saw.
- C. Thickness of Saw.
- D. Space of Teeth, and shape.
- E. Length of untoothed portion.
- F. Shape of ends :

1. Pared square to top of tooth.
2. " " bottom "
3. " taper.



If plated ends are required say :-

G. If square edge plates, or

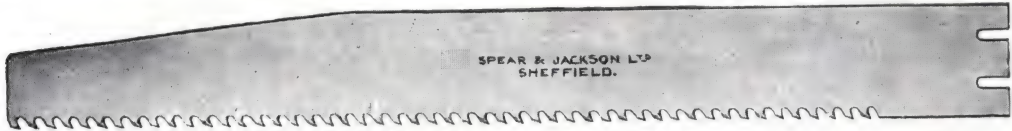
H. Bevelled edge plates are required, and give dimensions a, and b., also number of rivets.

If BUCKLES are required, send us complete details (see sketch above).

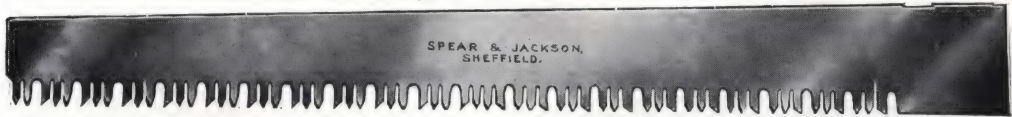
Quotations on application.

## DRAG & LOG CROSS-CUT SAWS

These saws are supplied either Parallel, Semi-Taper or Taper in width, and are either ground thin to back or parallel in thickness. The general type is **Taper width** and **ground thin to back**, to run with as little set as possible. We illustrate several types, but we can supply any other style of tooth; please ask for prices.



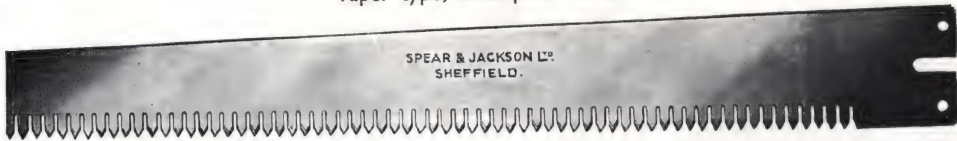
Semi-taper type, Briar Tooth.



Taper type, B.C. Champion Single Raker.



Taper type, Champion Tooth.



Taper type, Diamond Tooth.

### PRICES PER FOOT FOR SAWS UP TO 8 FEET LONG.

GROUND 2 GAUGES THIN TO BACK.

Set and Sharpened ready for use.

Thickness on tooth		10	9	8	7	6 G	
		3.4	3.75	4.2	4.6	5.2	m/m
Maximum width							per foot.
6"	150 m/m ...	8/6	8/9	9/-	9/6	10/-	10/6
7"	180 " ...	9/-	9/3	9/6	10/-	10/6	"
8"	200 " ...	9/6	9/9	10/-	10/6	11/-	"
9"	230 " ...	10/-	10/3	10/6	11/-	11/6	"
10"	250 " ...	10/6	10/9	11/-	11/6	12/-	"

Saws over 8 feet long, add 9d. per foot to above.

" 9 " " 1/6 " "

" 10 to 12 " " 2/6 " "

#### When ordering, give following details :-

Total length of the Saw.

Width; if parallel, semi-taper or taper; if semi-taper or taper, give width at butt-end and at point.

Thickness; if ground thin to back, or same thickness over all.

Shape of tooth required.

Also send us a rubbing of the holes, etc., in the butt-end of the Saws you are now using, or accurate details regarding same. We make no extra charge for holing and slotting. All Reciprocating Cross-cut Saws are left soft for 6" at the butt-end. This facilitates the boring of the holes necessary for buckling on to the machine.

## "MERMAID" SAW FILES.

More Files are used in a Saw Factory than in any other branch of Industry and—as the largest manufacturers of Saws in Europe—our experience as makers of Files is backed by our experience as one of the largest users!

None but the very best Files are good enough for us—the reputation of our Saws depends on it. Use Spear & Jackson's Files and benefit by our experience.

The Teeth are cut and sharpened exactly to that degree which gives them lasting "bite" and wear.

### THREE-SQUARE SAW FILES.



No. F50. TAPER SAW FILE.

		Length...	...	3	3½	4	4½	5	5½	6	7	8	9	10 inch.
No. F50.	Second cut, single cut	...	7/-	7/-	7/-	8/-	9/-	10/-	11/-	13/-	16/-	20/-	24/-	doz.
No. F54.	Slim Taper Saw File	...	7/-	7/-	7/-	8/-	9/-	10/-	11/-	12/-	14/-	17/-	20/-	"



No. F52. BLUNT SAW FILE.



No. F53. BAND SAW FILE.

### THREE-SQUARE TAPER BAND SAW FILES (second cut, single).

		Length	...	3½	4	4½	5	5½	6	7	8	10 inch.
No. F52	...	...	8/-	8/-	10/-	11/-	12/-	13/-	16/-	20/-	30/-	doz.
No. F53	...	...	7/-	9/-	11/-	11/-	14/-	14/-	17/-	20/-	29/-	"

### MILLSAW & TOPPING FILES.



No. F122. MILL SAW FILE.

		8	9	10	12	inch.
One round edge, bastard cut, single cut	...	14/-	18/-	18/-	25/-	doz.
One " second cut, "	...	17/-	22/-	22/-	28/-	"
Two " " "	...	19/-	23/-	23/-	29/-	"



No. F139. TOPPING FILE.

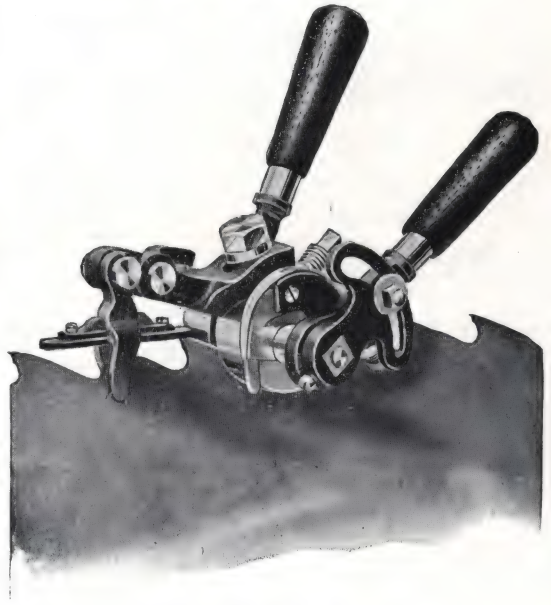
		8	9	10	inch.
Two square (safe) edges, second cut, single cut	...	18/-	20/-	23/-	doz.
Two round edges " " "	...	21/-	23/-	26/-	"

## Band and Frame Saw Swage.

OUR latest Swage is the result of much study in the practice of Swaging, and incorporates many new features and improvements on our older pattern. Though considerably lighter than our previous model, and thus making for easier control and quicker work, the durability has been in no way diminished.

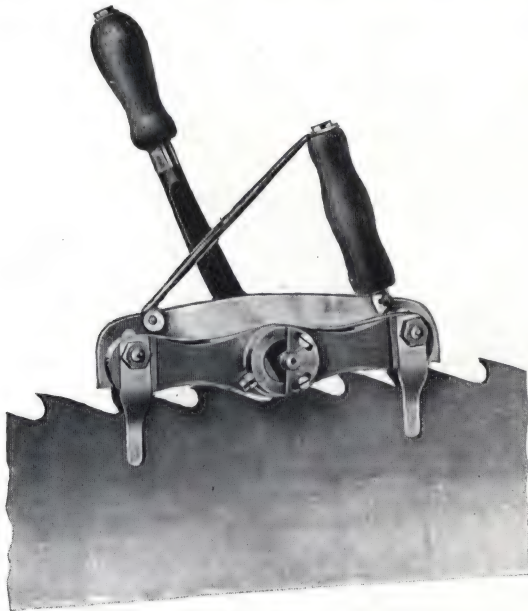
We would particularly draw attention to the new feature in the form of a spring lever lock, the release of which enables the die and its attachments to be instantaneously withdrawn, showing the position of the anvil on the tooth before the swage is made. By this means it is possible to set the anvil in the correct position without experimenting. The new form of swaging die, being symmetrical about its major axis, has a series of working surfaces on each of four edges; it is made of a special quality alloy tool steel scientifically tempered, and has an extra long life. In addition to these, many other improvements have been made, such as a more finely-adjusted back stop, etc.

- No. 1. For Band and Frame Saws,  
from 12G. to 14G. Price, £16 10s. 0d.
- No. 2. For Band and Frame Saws,  
from 14G to 17G. Price, £13 0s. 0d.
- No. 3. For Band and Frame Saws,  
from 16G. to 20G. Price, £11 5s. 0d.



No. 5480.

## Band and Frame Saw Swage Shaper or Side Dresser.



No. 5481.

THIS Tool is a necessary adjunct to the Swaging Tool previously described; its object is to side-dress each tooth to an exact width to ensure a fine surface finish on the cut and at the same time to give the requisite amount of "back" and "under" clearance to obviate friction in the cut. Its strong point is its lightness and easy control, in this respect being advantageous over other and less scientifically-designed tools.

The side plates are brass accurately machined; the dies, having a large diameter, are wear resisting; they are machined from the best procurable quality of tool steel, carefully hardened, and faces ground to the exact shape required to give clearance. The dies close in simultaneously on a right and left-hand screw operated by one lever or handle, the degree of movement being identical in every case. The action of the dies "forms" or "presses" each tooth in such a manner that it is given the correct degree of bevel or clearance, not only from the point to the back, but also from the point to the underside of the face of the tooth. Several wearing surfaces can be used, the alteration necessitating only a slight adjustment, and they can be easily removed for re-grinding.

The rest plate is adjustable to give a wider or narrower cutting point, as may be desired.

The action of the tool on the steel is such as benefits the saw and strengthens the resistance to wear on the tooth.

Including one spanner.

**FOR SAWS** from 14G. to 20G. ... Price £11 5s. 0d.

## STRAIGHT EDGES & GAUGES.



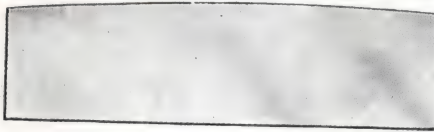
No. 42. SAW MAKERS' STRAIGHT EDGES. BRIGHT.

12	18	24	30	36	42	48	54	60	inches.
5/6	7/-	9/-	10/6	12/6	14/6	16/6	18/6	20/-	each.



SAW SET GAUGES.  
For Circular, Frame, or Cross-cut Saws.  
Bright Steel, 12/- doz.

## TENSION GAUGES for WIDE BANDSAWS.

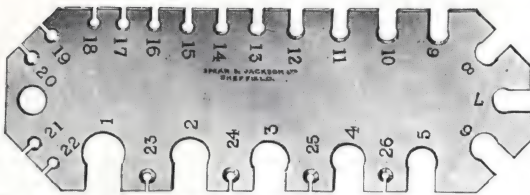


No. 162. TENSION GAUGES.

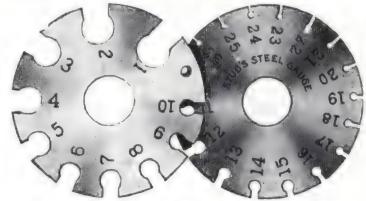
Made of best spring steel and accurately machine ground to a true segment of a circle. The following conform to recognized sawmill practice.

Length	Circles	One edge convex One edge straight		One edge concave One edge convex	
6 ins.	26 to 40 ft.	11/6		13/-	each
7 "	" 30 to 40 "	12/-		14/-	"
8 "	" 30 to 40 "	14/-		20/-	"
10 "	" 34 to 46 "	25/-		30/-	"
12 "	" 36 to 50 "	30/-		35/-	"

## STUBS' GAUGES GUARANTEED ACCURATE.



No. 18. OBLONG STEEL GAUGE.  
Finished Bright, 1 to 26 (Stubs'), 16/- each.



No. 17. DOUBLE CIRCLE.  
Finished Bright, 1 to 26 (Stubs'), 16/- each.

## SILVER SOLDER.

For JOINING WIDE and NARROW BAND SAWS.

The success of brazing Band Saws largely depends upon the Silver Solder. Our Silver Solder is made to a special formula, having a low melting point, and is specially adapted for brazing tempered steel. An ounce is sufficient to make 10 to 15 brazes, according to the width of the blade.

Sold in two sizes :  
 $\frac{5}{8}$ " and  $\frac{3}{4}$ " wide,  $\frac{3}{1000}$  of an  
inch thick.



No. 5150.

Supplied in 1 ounce Tins,  
Price 9/- per ounce.



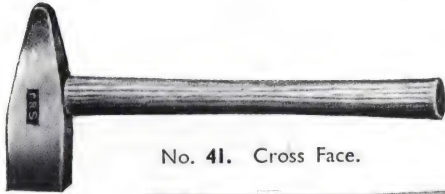
No. 5482.

## "SAWBRAZE"

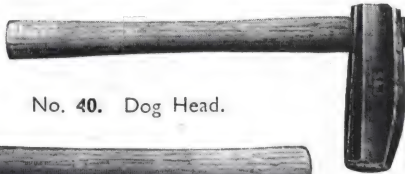
Really good blades are too expensive to be ruined by any defect in brazing, and to avoid this every precaution should be taken, "Sawbraze" is a scientifically-prepared flux for securely brazing Band Saw Blades. It is prepared in our own Laboratories, and we can recommend it with every confidence as a really dependable compound and suitable for every metal—except aluminium.

Complete with brush, cup, and instructions for use, 16/- per bottle.

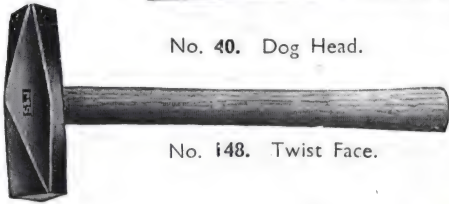
## SAW MAKERS' HAMMERS.



No. 41. Cross Face.



No. 40. Dog Head.



No. 48. Twist Face.

FORGED FROM BEST TOOL STEEL, TRULY BALANCED AND WITH HIGHLY-POLISHED FACES TO PREVENT DAMAGE TO THE MOST DELICATE PLATES. WITH BEST ASH HANDLES.

**A Set**—Comprising one each Dog Head, Cross Face, and Twist Face Hammers, 2½ lbs. to 3½ lbs. weight each; recommended for wide Band Saws and for Circular Saws up to 15G. thick ... .. 36/- per set.

**B Set**—Same as above, but each Hammer approximately 6 lbs. weight; suitable for Circular Saws up to 10G. thick ... .. 64/- ..

**C Set**—Same as above, but each Hammer 7 lbs. to 8 lbs. weight; suitable for the largest Circular Saws ... .. 78/- ..

	3	3½	6	7½ lbs.
If supplied singly, all Patterns	12/6	12/6	21/6	26/- each

## Band Saw Levelling Blocks.

MADE FROM A CLOSE GRAINED CAST IRON, RIBBED SECTION, PLANED AND SCRAPED TO A TRUE SURFACE ON ONE FACE.

Size	Approximate weight	Price
48" × 6" × 2½"	150 lbs. each	190/- each
60" × 8" × 2½"	252 lbs. "	280/- "
60" × 10" × 2½"	310 lbs. "	355/- "
60" × 12" × 2½"	365 lbs. "	435/- "
72" × 8" × 2½"	310 lbs. "	340/- "
72" × 10" × 2½"	410 lbs. "	430/- "
72" × 12" × 2½"	460 lbs. "	510/- "

## Saw Makers' Anvils.

Steel Faced.



No. 39.

## Band Saw Anvils.

Steel Faced.



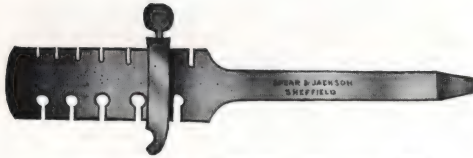
No. 4495

No.	Size	Approx. Weight.	Price.
No. 1	10" × 6" × 10"	200 lb.	305/- each
No. 2	11" × 6" × 11"	240 "	370/- "
No. 3	12" × 7" × 12"	330 "	495/- "

No.	Size of Face.	Height.	Approx. Weight.	Price Without handles
No. 1	8" × 6"	5"	70 lb.	116/- each
No. 2	10" × 6"	5"	90 "	144/- "
No. 3	12" × 6"	5"	102 "	172/- "
No. 4	12" × 8"	5"	140 "	230/- "

Handles 20/- each extra.

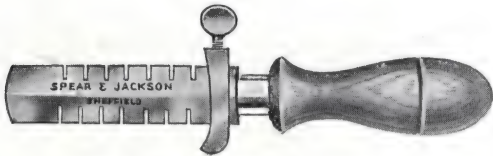
## SAW SETS.



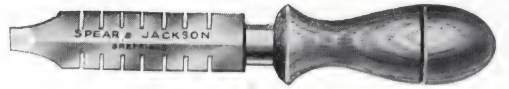
No. 132. SAW SETS. BRIGHT FOR CROSS-CUT SAWS, &c.  
12 gates, with guard, 64/- doz.



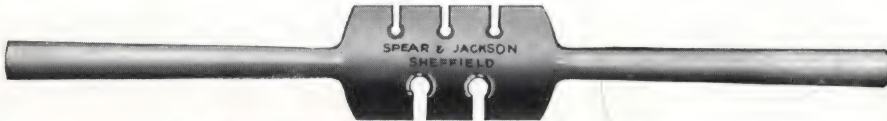
No. 133. SAW SETS. Exactly as No. 132. but without guard.  
50/- doz.



No. 134. SAW SETS, Bright, with Brass Guard, 12 gates, 37/6 doz.



No. 135. SAW SETS, Bright, with Turn screw End, 14 gates, 26/6 doz.



No. 19. DOUBLE HANDLED, FOR CIRCULAR SAWS  
5 gates, 12/6 each.



No. 136. SAW SETS. Bright. For Small Saws only.

4	6	8 gates
20/-	22/-	25/- doz.

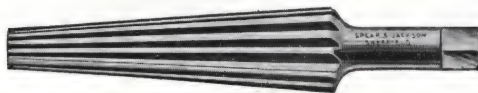


SAW SETS, STRONG for CIRCULAR SAWS, PIT SAWS, &c.

No. 141A. Bright, 6 gates, 58/- doz.

No. 141. Black, ,, 37/6 ,,

## REAMERS.



FOR ENLARGING HOLES OF CIRCULAR SAWS.

No.	1	2	3	4	
Taper from	$\frac{3}{8}$ to $1\frac{1}{8}$	$\frac{3}{4}$ to $1\frac{1}{4}$	$1\frac{1}{4}$ to 2	$1\frac{3}{4}$ to $2\frac{1}{2}$	inches.

Price (in best carbon steel)...	41/-	52/-	104/-	220/-	each.
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Prices on application for reamers in solid high speed steel.



## MACHINE KNIVES.

**W**E are manufacturers of every description of Machine Knife, and we positively guarantee the very best possible results from the use of our Knives, in regard to TEMPER UNIFORMITY, CUTTING QUALITIES and LENGTH OF SERVICE.

Both the STEEL and the HEAT TREATMENT are most carefully adapted for PLANING KNIVES, BARKING KNIVES, HOG AND CHIPPER KNIVES, VENEER KNIVES, etc., etc. Special care is also given to the balancing, grinding and finish.

### YELLOW EDGE HIGH SPEED STEEL KNIVES.

These are certainly high-priced Knives, but the world's best. The High Speed Steel is WELDED to the soft back and, as far as we are aware, there are only two firms in the world who can make a WELDED High Speed Steel Knife, and we are one of them. We have records of this knife which no other manufacturer has been able to beat, even at a higher price. We have obtained speeds as high as 500 ft. per minute and over; and when we speak of High Speed, we refer to the Speed of Feed, and not to the Revolutions of the Head.

The chief qualities of Yellow Edge Knives are CUTTING EFFICIENCY, TOUGHNESS and RESISTANCE TO TEMPER DRAWING. Owing to heat generated in fast feeding, this last item is of great importance; and our Yellow Edge Knives are definitely recognised as the World's Best, due largely to their ability to stand a higher temperature without softening in use.

Always remember when you are using this knife you are working with a fine cutting tool, and treat it accordingly.

### WHEN ORDERING MACHINE KNIVES

place the Knife face downwards, with the bevel side on top, on a piece of strong paper, marking thereon not only the position of the slots, but also the length, width and thickness desired. State how many knives are required, also how many knives go to a set, so that we can accurately balance same.

In ordering special Knives, always send drawing or blue print. We make a template of every pattern ordered, and stamp same with reference number and preserve for future use.

It is well to specify the kind of wood you wish to plane and the feed per minute. It is an easy matter for us, with our world-wide experience, to decide what temper to leave the knives. Our policy of keeping an accurate record of the temper of every knife we make, enables us to duplicate the temper and quality as previously ordered.

We invite you to write to us on any troubles which you may have. Tell us what they are, and we will endeavour to overcome them.

#### "Yellow Edge" High Speed Knives.

HAS it ever struck you what an enormous amount of time is lost in setting up the Machine? If this is so in your case, it is probably due to the fact that the knives you are using are not our YELLOW EDGE quality.

Again; you have no doubt often studied the finish on your boards.

Wherever "Yellow Edge" Knives are used, you will find that the curly grain is not torn off, the sound knots are beautifully finished and the board smooth and satiny; and less paint will cover it. This is a talking point to your customer, who is generally the Builder.

In fact, you like to turn out a well-finished article. Have a talk with our representatives and hear what they have to say. Or give us an opportunity to supply you with some of our "YELLOW EDGE" KNIVES and they will speak for themselves.

# THIN SAFETY CUTTER BLOCK KNIVES



We make these in various qualities to suit the requirements of all users. All are precision ground to within the fine engineering limits of  $\pm .001''$  (one thousandth of an inch), thus ensuring perfect balance, safety, and a finely-finished surface on the timber.

Thickness :	$\frac{1}{8}''$ or 3 m/m thick ;				$\frac{5}{32}''$ or 4 m/m ;			$\frac{3}{16}''$ or 5 m/m			$\frac{1}{4}''$ or 6 m/m thick.				
	Depth : ins. m/m	1 $\frac{1}{4}$ 30 & 35	1 $\frac{1}{2}$ 40	1 $\frac{3}{4}$ 45	2 50	1 $\frac{1}{2}$ 40	1 $\frac{3}{4}$ 45	2 50	1 $\frac{1}{2}$ 40	1 $\frac{3}{4}$ 45	2 50	1 $\frac{1}{2}$ 40	1 $\frac{3}{4}$ 45	2 50	2 $\frac{1}{4}$ ins. 55 m/m
Length on Cut Ins. m/m															
6 150	9/6	10/-	10/6	11/-	10/-	11/-	12/-	13/-	14/-	16/-	14/-	15/-	17/-	19/-	each
8 200	12/8	13/4	14/-	14/8	13/4	14/8	16/-	17/4	18/8	21/4	18/8	20/-	22/8	25/4	„
10 250	15/10	16/8	17/6	18/4	16/8	18/4	20/-	21/8	23/4	26/8	23/4	25/-	28/4	31/8	„
12 300	19/-	20/-	21/-	22/-	20/-	22/-	24/-	26/-	28/-	32/-	28/-	30/-	34/-	38/-	„
14 350	22/2	23/4	24/6	25/8	23/4	25/8	28/-	30/4	32/8	37/4	32/8	35/-	39/8	44/4	„
16 400	25/4	26/8	28/-	29/4	26/8	29/4	32/-	34/8	37/4	42/8	37/4	40/-	45/4	50/8	„
18 450	28/6	30/-	31/6	33/-	30/-	33/-	36/-	39/-	42/-	48/-	42/-	45/-	51/-	57/-	„
20 500	31/8	33/4	35/-	36/8	33/4	36/8	40/-	43/4	46/8	53/4	46/8	50/-	56/8	63/4	„
22 550	34/10	36/8	38/6	40/4	36/8	40/4	44/-	47/8	51/4	58/8	51/4	55/-	62/4	69/8	„
24 600	38/-	40/-	42/-	44/-	40/-	44/-	48/-	52/-	56/-	64/-	56/-	60/-	68/-	76/-	„
26 650	41/2	43/4	45/6	47/8	43/4	47/8	52/-	56/4	60/8	69/4	60/8	65/-	73/8	82/4	„
28 700	44/4	46/8	49/-	51/4	46/8	51/4	56/-	60/8	65/4	74/8	65/4	70/-	79/4	88/8	„
30 750	47/6	50/-	52/6	55/-	50/-	55/-	60/-	65/-	70/-	80/-	70/-	75/-	85/-	95/-	„
32 800	50/8	53/4	56/-	58/8	53/4	58/8	64/-	69/4	74/8	85/4	74/8	80/-	90/8	101/4	„
34 850	53/10	56/8	59/6	62/4	56/8	62/4	68/-	73/8	79/4	90/8	79/4	85/-	96/4	107/8	„
36 900	57/-	60/-	63/-	66/-	60/-	66/-	72/-	78/-	84/-	96/-	84/-	90/-	102/-	114/-	„
38 950	60/2	63/4	66/6	69/8	63/4	69/8	76/-	82/4	88/8	101/4	88/8	95/-	107/8	120/4	„
40 1000	63/4	66/8	70/-	73/4	66/8	73/4	80/-	86/8	93/4	106/8	93/4	100/-	113/4	126/8	„

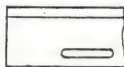
Above are in Super High Speed Steel—Yellow Edge.

If in Genuine 18 per cent. Tungsten High Speed Steel, less 25 per cent.  
 „ Alloy Steel less 45 „  
 „ Carbon Steel less 55 „

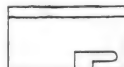
Small Knives—Knives 2" to 4" long on cutting edge, add 10 per cent.  
 „ 1" to 1  $\frac{1}{8}$ " long „ „ 20 „

to prices calculated pro rata on List above.

Extras for slots



9d. each Slot Net.



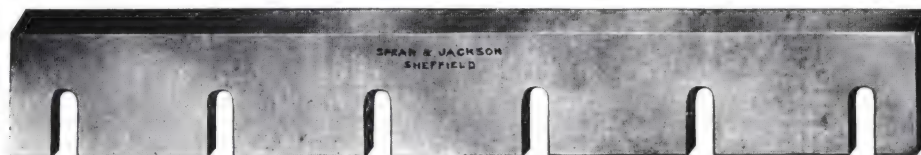
1/3 each Slot Net.



3d. each Slot Net.

**MICROMETER GRINDING.**—Unless otherwise ordered, these Knives are sent precision ground to the fine micrometer limits mentioned above. If the ordinary type of grinding is sufficient, we allow a reduction of 1d. per inch of length, net.

## PLANING & THICKENING MACHINE KNIVES



### PRICE LIST FOR KNIVES 4 INCHES LONG AND OVER.

	Up to	3	3½	4	4½	5	5½	6 ins. deep.
	"	75	90	100	115	125	140	150 m/m deep.
Price per inch of length on cut ... ..		2/8	2/11	3/2	3/6	4/-	4/3	4/6 per inch.
" " c/m. " " ... ..		1/1	1/2	1/3	1/4	1/7	1/8	1/9 per c/m.

The above prices are for Knives up to and including 3/8". If thickness over 3/8", add 5 per cent. per 1/16" up to 1/2" for High Speed Steel qualities and 10 per cent. per 1/16" up to 1/2" for Alloy and Carbon Steel qualities. If thickness over 1/2" ask for special prices.

If required precision ground, add 1d. per inch of length, net.

The above prices are for Knives in our "Yellow Edge" Super High Speed Steel quality.

If required in Genuine 18 per cent. High Speed Steel, deduct 25 per cent.

" " " Alloy Steel quality, " 45 "

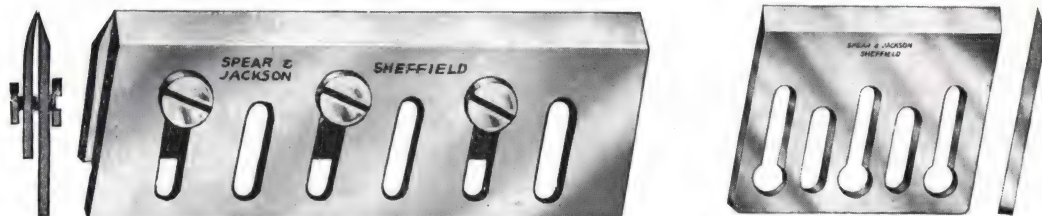
" " " Carbon Steel quality, " 55 "

Knives with more than one slot bear a reference number; when ordering repeats, quote this number.

Knives are balanced in pairs, or in sets: Knives bearing similar balance numbers should be mounted opposite one another on the spindle.

For Knives under 4" on cutting edge, see Square Irons, page 42.

## STATIONARY, BOX OR FIXED KNIVES.



### PRICE LIST For Knives 3/8" or 5/16" thick (8 and 10 m.m).

	Up to	5	5½	6 inches deep.
	"	125	140	150 m/m. deep.
Price per inch of length on cut ... ..		4/2	4/5	4/8 per inch.
" " c/m " " ... ..		1/8	1/9	1/10 per c/m.

If required precision ground, add 1d. per inch of length, net.

The above Prices are for Knives in our "Yellow Edge" Super High Speed Steel quality.

If required in Genuine 18 per cent. High Speed Steel, deduct 25 per cent.

" " " Alloy Steel quality, " 45 "

" " " Carbon Steel quality, " 55 "

### BACK IRONS FOR THE ABOVE.

	Up to	5	5½	6 inches deep.
	"	125	140	150 m/m deep.
Price per inch of length... ..		2/-	2/2	2/4 per inch.
" " c/m " " ... ..		-/10	-/10	-/11 per c/m.
Screws for Back Irons				8/- per dozen.



## SQUARE, CHIPPING OR SIDE IRONS.

These can be supplied of any depth up to 5" or 125 m/m from cutting edge to base of slot x  $\frac{3}{8}$ " thick or thinner.

Price List for Knives under 4" or 100 m/m on cut.

Length of cutting edge :	up to	1½	1¾	2	2¼	2½	2¾	3	3¼	3½	3¾	inch
	„	40	45	50	55	65	70	75	80	90	95	m/m

7/6 8/2 8/10 9/6 10/2 10/10 11/6 12/2 12/10 14/- each

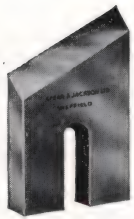
Knives of less than 1½ in. or 40m/m long on cut are charged the minimum price 7/6 each.

For knives thicker than  $\frac{3}{8}$ " , add 5% for each  $\frac{1}{16}$ " thicker up to  $\frac{1}{2}$ " thick on High Speed Steel knives and 10% for each  $\frac{1}{16}$ " thicker up to  $\frac{1}{2}$ " thick on Alloy and Carbon Steel knives.

The above prices are for Knives in our "Yellow Edge" Super High Speed Steel Quality.

If required in Genuine 18 per cent. High Speed Steel, deduct 25 per cent.

„	„	Alloy Steel Quality	„	45	„
„	„	Carbon Steel Quality	„	55	„



## SHOULDER, REBATE OR SKEW IRONS

Any depth up to 5in. or 125m/m from cutting edge to bottom x  $\frac{3}{8}$ " thick or thinner

Length across widest part :	up to	1½	1¾	2	2¼	3	3½	4	inch
	„	40	45	50	65	75	90	100	m/m

RIGHT HAND

8/6 9/3 10/- 11/- 12/6 14/- 15/6 each

RIGHT HAND

Knives of less than 1½ in. or 40m/m across widest part, at bottom of slot, are charged the minimum price of 8/6 each.

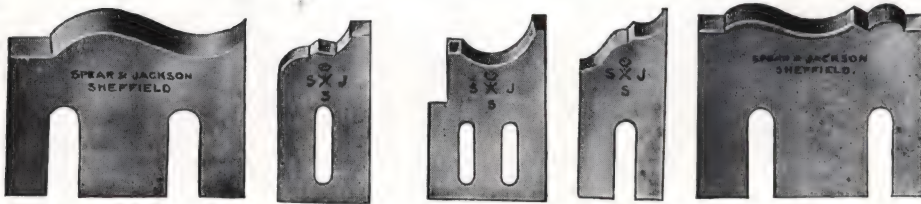
For knives thicker than  $\frac{3}{8}$ " , add 5% for each  $\frac{1}{16}$ " thicker up to  $\frac{1}{2}$ " thick on High Speed Steel knives and 10% for each  $\frac{1}{16}$ " thicker up to  $\frac{1}{2}$ " thick on Alloy and Carbon Steel knives.

The above prices are for Knives in our "Yellow Edge" Super High Speed Steel Quality.

If required in Genuine 18 per cent. High Speed Steel, deduct 25 per cent.

„	„	Alloy Steel Quality	„	45	„
„	„	Carbon Steel Quality	„	55	„

## MOULDING CUTTERS



The prices of Moulding Cutters vary according to size and pattern of mould. We illustrate above a few of the more intricate types of moulds.

To obtain price of finished moulding cutter, add price given below to square or rebate cutters (as required) listed above :—SIMPLE, 9d. MEDIUM, 1/- INTRICATE, 1/3 per inch net measured across slots.



## TONGUING and RAISED BACK GROOVING IRONS.



Up to 5in. (125 m/m) deep from cutting edge to base of slot.  
 $\frac{1}{16}$ in. or  $\frac{3}{16}$ in. thick 8 or 10 m/m

Length across slot : ...	Up to	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2 inches
		40	45	50 m/m
Tonguing Irons ... ..		11/6	12/-	12/6 each
Grooving Irons, with raised back ... ..		12/8	13/4	14/- ..

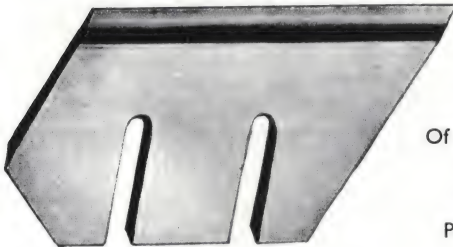
We recommend the use of Grooving Irons with raised back (see illustration above), which can be supplied :—  
 $\frac{1}{4}$ in.  $\frac{5}{16}$ in.  $\frac{3}{8}$ in. across cutting edge.  
(We can work to millimetre widths if requested).

**Note.**—Ordinary pattern Grooving Irons, i.e., **without** raised back, are invoiced at the prices of Shoulder and Rebate Irons, see page 46

**Above prices are for "Yellow Edge" Super High Speed Steel Quality.**

If required in	Genuine 18 per cent. Tungsten Quality,	deduct 10 per cent.
" "	Alloy Steel Quality	" 27 $\frac{1}{2}$ "
" "	Carbon Steel Quality	" 32 $\frac{1}{2}$ "

## KNIVES FOR TENONING MACHINES.



Plain Pattern.

All sizes up to 5  $\frac{1}{2}$ in. (140 m/m) deep  $\times$   
 $\frac{1}{16}$ in. or  $\frac{3}{16}$ in. thick (8 or 10 m/m).

### PLAIN PATTERN.

Of a depth of	4	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$ inches	from cutting edge to base of slots.
	100	115	125	140 m/m	" " " "
Price	4/-	4/2	4/4	4/6	per inch of total overall length.
	"	1/7	1/8	1/9	" c/m " " "

### SHOULDERED PATTERN.

Length on cutting edge	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4 inches
	65	75	90	100 m/m
Price	12/-	13/9	15/6	17/6 each



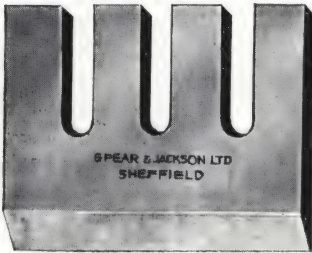
Shouldered Pattern.

**Above prices are for "Yellow Edge" Super High Speed Steel Quality.**

If required in	Genuine 18 per cent. High Speed Steel,	deduct 25 per cent.
" "	Alloy Steel Quality,	" 45 "
" "	Carbon Steel Quality	" 55 "

**SCRIBING CUTTERS** for Tenoning Heads of all patterns and shapes can be supplied, and will be quoted for on receipt of specification and sketches or an old cutter, indicating maximum length.

## CHIPPER, HOG & BARKING KNIVES



FOUR OUT OF THE  
MANY TYPES  
GENERALLY ASKED  
FOR



We are conversant with this class of Trade in all parts of Canada, America, Baltic Countries and Southern Europe, as also in certain parts of South America, for use in Pulp, Cellulose, Tanning Extract Factories, &c., &c.

These Knives are made of Tough Alloys, which give a longer life than ordinary Knives.

They can be supplied in Solid Steel, or in Steel on a mild iron foundation, according to customers' requirements.

### STANDARD PRICE LIST OF CHIPPER, HOG & BARKING KNIVES.

Per INCH of Cutting Edge.  
FOR KNIVES WITHOUT HOLES OR SLOTS.

Depth :-	6 inches			7 inches			8 inches		
	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1 inch thick
Price	3/8	3/10	4/2	4/5	4/10	5/1	4/10	5/3	5/6 per inch.

Per METRE of Cutting Edge.

Depth :-	150 m/m			180 m/m			200 m/m		
	20	22	25	20	22	25	20	22	25 m/m thick
Price	144/-	148/-	164/-	174/-	190/-	200/-	190/-	207/-	216/- per Metre

**Extras for holes and slots :**

Square countersunk holes ...  $\frac{3}{4}$ in. 4/-,  $\frac{7}{8}$ in. 4/6, 1in 5/-, per hole  
 Plain oval slots ... 3/- per slot  
 Oval slots with bevelled edges ... 10/- " "  
 Rectangular slots with bevelled edges ... 13/6 " "

Send full detailed drawings or blue prints with enquiries and orders.

## VENEER & PEELING KNIVES

WE supply these Knives with cutting edge of **Tungsten Alloy Steel** which cannot be surpassed for guaranteeing the finest possible results in temper, uniformity, finish, cutting qualities, and length of service.

The excellence of these Knives depends to a large degree upon skilful treatment in grinding and preparing for the machine operator. This cannot transform bad knives into good, but lack of care in grinding may turn a perfectly good knife into a bad knife or worse, in a few seconds.

### STANDARD PRICE LIST of VENEER & PEELING KNIVES

without holes or slots, up to and including 6 ft. long.



Prices per inch of length on Cutting Edge.

		5	6	7	8	9	inches deep
1/8 inch thick	... ..	3/-	3/6	4/-	4/6	—	per inch
	... ..	3/6	4/-	4/6	5/-	—	..
	... ..	4/6	5/-	5/6	6/-	7/6	..

Prices per Metre of length on Cutting Edge.

Thickness	120	130	140	150	160	170	180	190	200	225 m/m. deep
12 m/m....	115/-	120/-	127/-	135/-	155/-	175/-	180/-	185/-	190/-	— per Metre
15 m/m....	138/-	143/-	150/-	160/-	177/-	195/-	200/-	210/-	215/-	— ..
20 m/m....	170/-	178/-	188/-	198/-	206/-	215/-	220/-	227/-	235/-	295/- ..

Intermediate widths charged as next size larger. Knives wider or thicker in one part or another charged on widest and thickest parts. Knives a fraction over the even inch or half inch in length are charged half inch extra. Knives jointed or dovetailed together specially quoted for against specification or drawing.

**Extras for holes and slots :-**

Plain open slots	... ..	3/4	per slot extra.
Plain closed slots	... ..	4/6	.. ..
Countersunk holes	up to 1/2 in. diameter	... ..	1/6 per hole extra.
	over 1/2 in. diameter	... ..	2/- .. ..
Open recessed or countersunk slots	up to 5 ins. long	... ..	7/6 per slot extra.
	over 5 ins. long	... ..	10/6 .. ..
Closed recessed or countersunk slots, any length	... ..	9/6	.. ..

**Extras for Knives over 6 feet long :-**

Sizes up to 7 ins. wide	× 3/8 in. thick	... ..	1/- per foot extra.
.. over 7 ins.	.. × 1/2 in. ..	... ..	2/- .. ..
.. 5 ins. to 9 ins.	.. × 3/4 in. ..	... ..	3/- .. ..

PRICES FOR KNIVES FOR LEATHER, TOBACCO, ETC., QUOTED AGAINST SPECIFICATION.



Veneer Knife with Special Recessed Slots

KINDLY SEND FULL-DETAILED DRAWINGS OR BLUE PRINTS WHEN SENDING US YOUR ENQUIRIES OR ORDERS.

## GUILLOTINE PAPER KNIVES.



We supply these Knives suitable for Furnival, Payne, Greig, Crossland or other machines, guaranteeing the best possible results as regards temper, uniformity, cutting qualities, finish and length of service between sharpenings.

Our Mermaid Alloy Steel Knives are in regular use in the largest and most up-to-date Printing Establishments in the world ; not on account of price, but because of their supreme quality and dependability.

### STANDARD PRICE LIST.

(Prices per inch of cutting edge, for plain knives without holes or slots.)

	$\frac{3}{8}$ "	$\frac{7}{16}$ "	$\frac{1}{2}$ "	$\frac{9}{16}$ "	$\frac{5}{8}$ " thick
3" wide	1/5	1/6	1/8	1/9	2/- per in.
3½" "	1/6	1/7	1/9	1/10	2/1 "
4" "	1/7	1/8	1/10	2/-	2/3 "
4½" "	1/8	1/9	2/-	2/1	2/5 "
5" "	1/10	2/-	2/2	2/4	2/7 "
5½" "	2/-	2/1	2/4	2/6	2/10 "
6" "	2/1	2/3	2/5	2/7	3/- "

#### Extras for Holes and Slots.

Round Tapped Holes	...	...	...	...	...	1/- each.
Plain Countersunk Holes with Keyway	...	...	...	...	...	2/- "
Square Slots, Bevelled	...	...	...	...	...	1/6 "

Any other Type of Hole or Slot can be supplied, at Proportionate Prices.

This list does not cover special knives such as Furnival new style with bevelled back, Crossland knives with dovetail bar, Grooved knives etc., for which prices will be quoted against Specification.

Please send fully detailed drawings with enquiries and orders.



# “DOUBLE MERMAID” RADIAL GROUND CROSS CUT SAWS.

## WHY RADIAL GROUND SAWS ARE BETTER.

Cross Cut Saws, ground in a straight line from end to end, must have their end teeth several gauges thinner than those near the middle.

By grinding the Saw radially so that the grinding lines are parallel to the teeth, the latter will all be exact even thickness from end to end in spite of the 5 gauge thin-to-back grinding.

The practical Cross Cut Saw user well knows the importance of this point.

“DOUBLE MERMAID” Cross Cut Saws are extremely tough and of a temper which is just right—hard enough to keep their edge all day and yet tough to swage without crumbling or splitting.

Guaranteed free from “wind,” twists or lumps.

The Radial Grinding causes the Saw to run with less effort, requiring the minimum of set and cutting fast and without binding. The teeth are the correct shape for the requirements of each individual market.

Made from the finest Sheffield Alloy Saw Steel.

Accurate to 1/1000th of an inch (the thickness of a cigarette paper).



A Double Mermaid Cross Cut Saw being used by the winner of the  
Sawing Championship of Canada.

## PATTERNS & TYPES OF CROSS-CUT SAWS



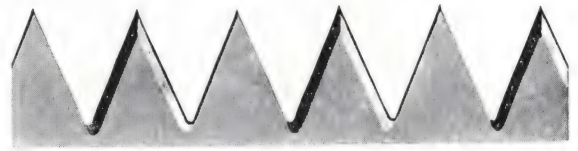
Peg Tooth.

G435, G484, G482.

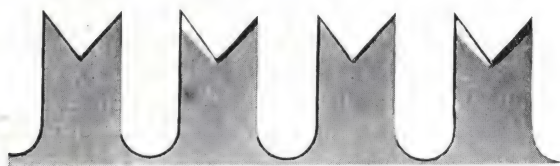
The above illustrates our Peg Tooth Crosscut Saws (Patterns G435, G484, G482 etc.) Below we give large size illustrations of the various toothings available, together with relative pattern numbers. Prices will be found on pages 49, 50 and 51.



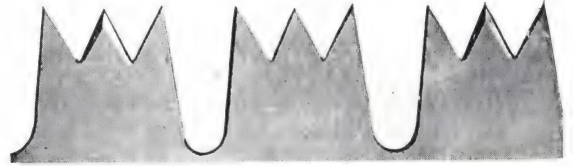
Peg. G435, G484, G482, G13, G14, G17A.



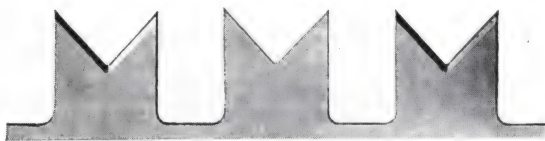
Tenon. G535, G534, G532.



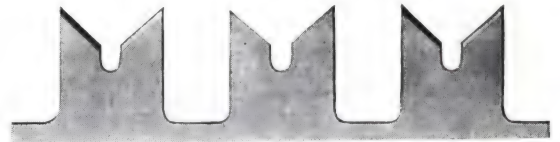
Lightning. G545, G544, G542.



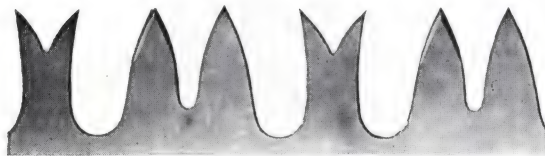
Great American. G455, G524, G522, G15, G16.



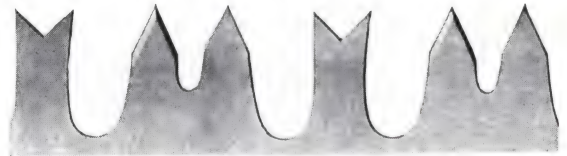
Tasmanian. G585, G644, G622, G19.



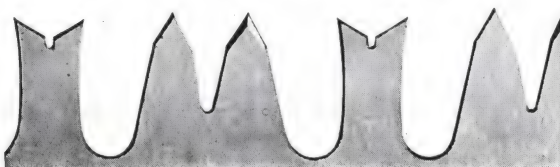
Tasmanian with Filing Gullet. G765, G794, G772.



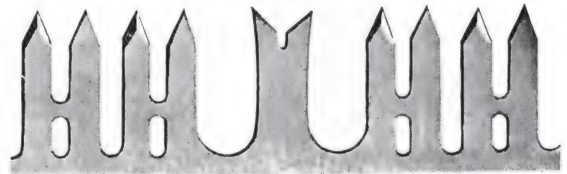
British Champion. G845, G844, G842.



British Raker. G855, G854, G852.



Fallers King. G505, G504, G502.



Lance. G475, G564, G562.



# "DOUBLE MERMAID" Alloy Steel Cross-Cut Saws



RADIAL GROUND 5 GAUGES THIN TO BACK.

Secret Process Alloy Steel ; Extra Finish ; Set and Sharpened.

Length ...	4		4½	5		5½		6		6½	7		7½	8 ft.	
	120	130		140	150	160		170	180	200	215	230	245	cm.	
G435 Peg Tooth ...	19/-	21/-	21/6	23/-	24/-	27/6	29/-	31/-	34/6	38/6	44/-	51/6	60/-	each.	
G535 Tenon Tooth ...															
G545 Lightning ...															
G455 Great American ...															
G585 Tasmanian ...	21/6	23/-	24/-	25/-	27/-	30/6	32/-	34/-	37/6	42/-	47/6	55/6	64/-	..	
G765 ,, with filing gullet															
G845 British Champion															
G855 British Raker ...															
G505 Fallers King ...	23/-	25/6	26/6	28/-	30/-	33/-	34/-	37/-	40/6	46/-	53/-	60/-	67/6	..	
G475 Lance ...															

# "MERMAID" CROSS-CUT SAWS.

RADIAL GROUND 4 GAUGES THIN TO BACK.

Best Silver Steel ; Best Finish ; Set and Sharpened.



Length ...	4		4½	5		5½		6		6½	7		7½	8 feet	
	120	130		140	150	160		170	180	200	215	230	245	cm.	
G484 Peg ...	16/6	18/-	18/9	19/6	21/-	22/6	23/6	24/6	26/6	28/6	31/-	34/-	37/-	each.	
G534 Tenon ...															
G544 Lightning ...															
G524 Great American ...															
G644 Tasmanian ...	19/-	20/6	21/3	22/-	24/-	26/-	27/-	28/-	29/6	32/-	35/-	37/6	40/6	..	
G794 ,, with filing gullet															
G844 British Champion															
G854 British Raker ...															
G504 Fallers King ...	21/6	23/6	24/6	25/6	28/-	30/-	31/-	32/-	34/6	37/-	40/6	44/-	47/6	..	
G564 Lance ...															

Extra for "MERMAID" Cross-Cut Saws Radial Ground 5 Gauges thin to Back - /8 each.

N.B.—These Prices do not include Tabs or Handles. See Page 51 for Accessories.

For the various types of Teeth, see page 48.

All the above patterns of cross-cut saws are straight along the back ; if a slight curve (round back) is required, please mention on order.

Where cross-cut saws are required of non-standard dimensions, please specify width at middle and width at ends.



## “MERMAID” CROSS-CUT SAWS



GROUND 2 GAUGES THIN TO BACK.  
Best Silver Steel ; Set and sharpened.

MERMAID

MERMAID

	Length ...	4 120	130	4½ 140	5 150	160	5½ 170	6 180	6½ 200	7 215	7½ 230	8 245	feet. cm.	
G482 Peg ...	...	14/-	15/-	15/6	16/-	17/6	18/6	19/-	19/6	21/6	23/6	25/6	27/6	29/6 each.
G532 Tenon ...	...													
G542 Lightning ...	...													
G522 Great American ...	...													
G622 Tasmanian ...	...	17/-	18/-	18/6	19/-	21/-	22/6	23/3	24/-	26/-	28/6	31/-	33/-	35/6 ..
G772 „ with filing gullet	...													
G842 British Champion ...	...													
G852 British Raker ...	...													
G502 Fallers King ...	...	19/6	21/-	21/9	22/6	25/-	26/6	27/3	28/-	30/6	33/6	36/6	40/-	43/- ..
G562 Lance ...	...													

For the various types of Teeth, see page 48.

All the above patterns of cross-cut saws are straight along the back ; if a slight curve (round back) is required, please mention on order.

Where cross-cut saws are required of non-standard dimensions, please specify width at middle and width at ends.



## HOLLOW BACK FELLING SAWS



“MERMAID” BRAND, 2 GAUGES THIN TO BACK.  
Best Silver Steel ; Set and sharpened.

MERMAID

MERMAID



Lance

No. G23.



Champion

No. G24



Great American

No. G25.

	Length ...	3 90	3½ 110	4 120	4½ 140	5 150	5½ 170	6 180	6½ 200	7 215	feet. cm.
G23 Lance ...	...			13/3	14/6	16/-	17/9	19/6	21/-	22/9	each.
G24 Champion ...	...			10/6	12/-	13/6	15/-	16/6	18/-	19/6	..
G25 Great American ...	9/-	10/-	11/6	12/9	14/6	15/6	17/6	19/6	19/-	20/3	..

### COCK BRAND.

G26 Great American Tooth	6/-	6/6	7/6	9/-	11/-	11/6	12/-	13/6	14/6	..
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NOTE.—The Prices shown on this page do not include Tabs or Handles. See page 51.

## CROSS-CUT SAWS.



No. G13. John Cockerill "Aetna" Brand.



No. G14. Australia "Felix" Brand.

Good quality saws at moderate prices, set and sharpened.

	Length	3 90	3½ 110	4 120	4½ 140	5 150	5½ 170	6 180	6½ 200	7 feet 215 c/m
G13 "Aetna" Brand, Peg ...		6/-	6/3	7/-	7/9	9/-	10/9	11/9	13/-	14/3 each
G14 Australia "Felix" Brand, Peg...										
G15 "Aetna" Brand Great American		8/3	8/6	9/-	10/6	11/6	12/9	14/-	15/-	16/6 "
G19 " " Tasmanian ...										



G16. "COCKERILL" Brand.

A good cheap quality, set and sharpened.

"COCKERILL" Brand	Length	3 90	3½ 110	4 120	4½ 140	5 150	5½ 170	6 180	6½ 200	7 feet 215 c/m
G17a Peg Tooth ...		4/9	5/3	5/9	6/6	7/3	8/-	8/9	9/9	10/6 each
G16 Great American Tooth ...		7/6	7/9	8/6	9/6	10/6	12/-	13/-	14/-	15/6 "

Aetna and Cock Brand supplied with G100 Tangs unless otherwise stated—charged extra.

FOR VARIOUS TYPES OF CROSS-CUT SAW TEETH—SEE PAGE 48.

All the above patterns of cross-cut saws are straight along the back ; if a slight curve (round back) is required, please mention on order.

Where cross-cut saws are required of non-standard dimensions, please specify width at middle and width at ends

## TABS AND HANDLES FOR CROSS-CUT SAWS



No. G106  
1/- each.



No. G232  
1/- each.



No. G233  
-/9 each.



No. G107  
-/6 each.



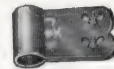
No. G102 1/10 each



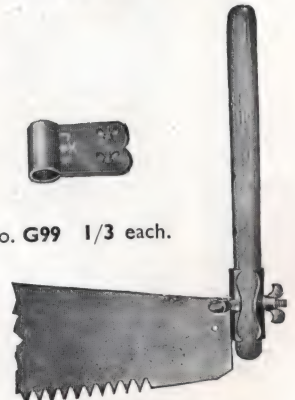
No. G100 -/9 each.



No. G104  
1/4 each.



No. G99 1/3 each.



No. G103 1/- each.

# SPEAR-FAST CROSS-CUT SAWS.

TWO STROKES DO THE  
WORK OF THREE



		4	4½	5	5½	6	6½	7	feet
<b>G20</b>	"Spearfast" Cross-cut Saw. Straight Back ...	21/-	23/-	24/10	27/-	30/6	33/4	36/3	each
<b>G21</b>	" " " Hollow " ...	20/8	22/9	24/10	—	—	—	—	"
	<b>G103</b> or <b>G106</b> Combined tangs and handles for <b>G20</b> and <b>G21</b> ...						1/-		"
	<b>F47</b> Special file, 8 in., for resharpening <b>G20</b> and <b>G21</b> Cross-cut Saws						19/6		dozen

### DETAILS OF THE NEW TOOTH FORMATION



The "Spearfast" easy-cutting tooth formation is a new way of forming and sharpening saw teeth which enables anyone to work with only two-thirds the effort necessary with an ordinary saw.

Extensive tests of the new "Spearfast" teeth show that, in general, two strokes of the saw accomplish as much as three strokes of a saw provided with ordinary teeth. The resulting saving of effort on a day's work is considerable, especially on heavy rough jobs.

### TESTS OF "SPEARFAST" SAWS.

Comparative tests have been made by independent persons of all degrees of skill from amateurs to skilled joiners. In each test, compared with ordinary saws, the "Spearfast" Saw took only two-thirds or less the number of strokes to do the same amount of work. In the case of one series of tests on handsaws, the finest quality handsaw with ordinary teeth took a total of 179 strokes; the corresponding number of strokes for a "Spearfast" saw was only 114, to do exactly the same amount of work.

The "SPEARFAST" tooth formation, as used on the "SPEARFAST" Cross-cut Saws, is available on:—

- HANDSAWS ... .. see page 61
- PRUNING SAWS ... .. see page 69
- ONE-MAN CROSS-CUT SAWS AND TUBULAR FRAME SAWS ... .. see page 80
- FOR SHARPENING INSTRUCTIONS REFER TO PAGE 53 OPPOSITE.

# SPEAR-FAST SAWS.

TWO-MAN CROSS-CUT SAWS, HANDSAWS, TUBULAR FRAMESAWS,  
ONE-MAN CROSS-CUT SAWS AND PRUNING SAWS.

## SHARPENING INSTRUCTIONS.

The sharpening of "SPEARFAST" Teeth is no more difficult than ordinary teeth, but the procedure is somewhat different and the recommendations below should be carefully studied to ensure success. Once the method is understood the rest is easy.

### TOPPING AND SETTING.

The saw should be "topped" in the usual manner by running the file lightly from end to end of the saw, to reduce all teeth to the same level. The saw can then be set in the usual way.

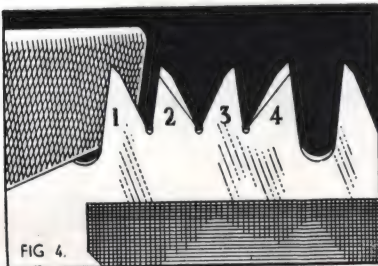
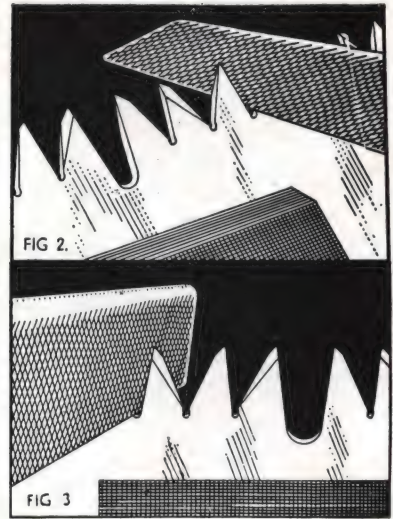
### THE SPECIAL FILE.

We have designed special files (Fig. 1) for sharpening "SPEARFAST" Saws. They are of taper section, so that when gulleting is necessary, the thick edge will deepen (or sink) the big gullets and the thin edge the small ones between the teeth.



### SHARPENING THE TEETH.

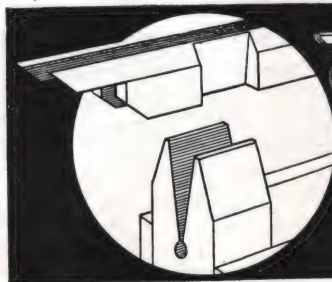
When sharpening only the bevelled backs of the teeth need usually be filed (see Fig. 2). Keep to the original angle of the bevel and file the teeth that are set away from you (i.e. teeth 2 and 4 in Fig. 4). It will be a great help if the saw is inclined away from the sharpener at an angle of approximately 40° (the file will cut more smoothly and the necessary bevel can be obtained more easily without having to hold the file at an awkward angle). (See Fig. 2.) The saw will, of course, have to be turned after sharpening those teeth that are set away from you in its first position, so that you never file any teeth set towards you.



### GULLETING THE TEETH.

After three or four times sharpening it will be advisable to sink the gullets. Use the special "SPEARFAST" File as described in paragraph 2 (Fig. 3).

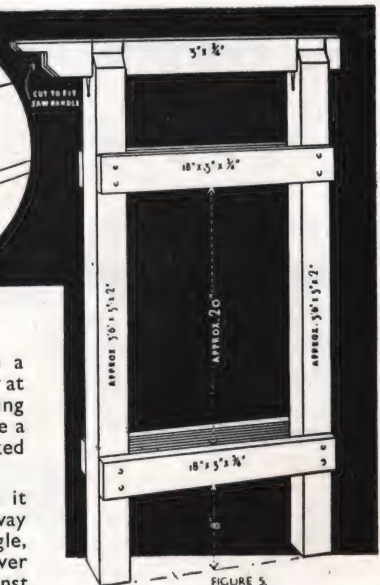
When the saw has been worn down by sharpening about  $\frac{1}{4}$ ", it is advisable to file the fronts of the teeth. This is done with the saw upright in the vice as shown in Figs. 3 and 4. Keep the file nearly at right-angles to the saw and always sharpen the teeth that are set away from you. One or two strokes for each tooth is sufficient.



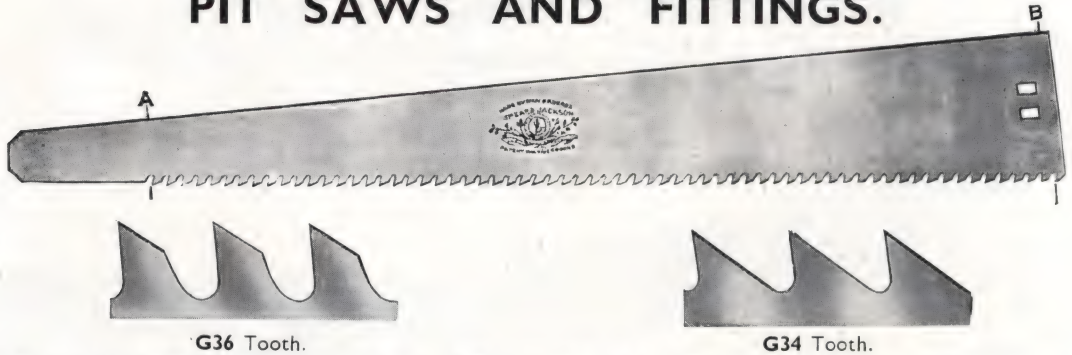
### SAW VICE.

For those who wish to make a special vice for holding the saw at an inclined angle when sharpening the bevelled backs, we illustrate a type that can be easily knocked together. (See Fig. 5.)

Note.—In using this vice lean it against the bench, inclined away from you at the required angle, and place your foot on the lower crossbar and your knee against the upper cross-bar to keep the vice steady.



## PIT SAWS AND FITTINGS.



**"Mermaid" Brand, Extra Cast Steel, Patent Machine Ground, not set or sharpened.**

Length ... ..	5	5½	6	6½	7	7½	8	8½	9	feet.
Thickness ... ..	13E	13E	13E	13	13	12E	12E	12	12	Stubs' Gauge
Maximum width at A ...	3½	3½	3½	3½	3½	3½	3½	3½	3½	ins.
" " B ... ..	11	11	11	11	11	11	12	12	12	ins.
<b>Price (For G36 and G34) ... ..</b>	<b>14/8</b>	<b>15/4</b>	<b>18/-</b>	<b>20/-</b>	<b>22/-</b>	<b>26/-</b>	<b>30/-</b>	<b>37/-</b>	<b>44/-</b>	each,
<b>G36</b> Extra for Setting and Sharpening...	2/-	2/-	2/4	2/10	2/10	3/4	3/4	5/6	5/6	"
<b>G34</b> " " " (but without special groove filed)...	3/9	4/2	4/6	4/11	5/3	5/8	6/-	6/5	6/9	"

**No. G36A. "John Cockerill" Brand, Best Cast Steel, Patent Machine Ground, not set or sharpened.**

Length ... ..	5½	6	6½	7	7½	8	feet
Thickness ... ..	13E	13E	13	13T	12	12	Stubs' Gauge
Width at A ... ..	3	3	3	3	3	3	inch.
" B ... ..	10	10	10½	11	11	11	"
<b>Price ... ..</b>	<b>12/4</b>	<b>13/4</b>	<b>15/6</b>	<b>17/8</b>	<b>19/8</b>	<b>21/8</b>	each.
Extra for Setting and Sharpening...	1/-	1/2	1/6	2/-	2/5	2/10	"

We make also Other Patterns and Qualities suitable for various Individual Markets.

Prices for Pitsaws set and sharpened on application.

**India**—We are familiar with the exact patterns required for Bombay, Calcutta, Madras, and all other Indian centres having their own particular measurements, tooth spaces, and holes, etc., and it is necessary only to state "Bombay" or "Madras," etc., pattern. Quotation Against Enquiry.

### BOXES & TILLERS.



No. G38  
Pit saw boxes, Beech, unpolished,  
6/- each.



No. G39  
Iron pit saw boxes, japanned,  
1/6 each.



No. G40  
Pit saw handles, unpolished Ash,  
16½ in., -/8 each.



No. G41  
Pit Saw Tillers, wrought iron, japanned, 21" long ... 3/- each.  
" " " " " 30" " ... 4/4 "

**Note:** 21" Tillers supplied unless otherwise specified.



## HANDSAWS.



The comprehensive Spear & Jackson range.

In handsaws we cater for every possible user from the craftsman to the householder who likes to keep a saw for an occasional odd job for which he may need it.

For expert craftsmen who will have nothing but the best both as regards Quality and finish there is our No. 171P.

For the average Joiner or Carpenter who cannot afford our No. 171P Super Quality but needs a precision made saw, there are our Nos. 88P and 82P.

Our range is complete with saws for general work ; on the farm ; in the technical school ; on the estate or in the home—in fact wherever saws are used.

## THE NEW Nos. 88P and 82P "SPEARIOR" HANDSAWS.

These saws now embody many very real improvements.

- Temper.** We have increased the toughness to such a degree that if only reasonable care is used **the teeth will not break out** in setting.
- Retention of Cutting Edge and Set.** This has, however, been done without loss of hardness necessary, to ensure **long life for teeth and set.**
- Taper Grinding.** The standard of **Uniformity of taper grinding** has been so greatly improved that it is now as nearly as possible a precision job giving **just the clearance and flexibility from heel to toe which is required for fast, easy and accurate sawing.**
- Balance.** This depends upon the exact angle which the toothed edge makes with the grip. New production methods ensure that every saw of this grade has just the right angle to give **uniformly good balance.**
- Spring.** It is almost impossible to buckle a SPEARIOR Saw.

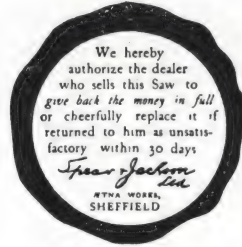
Before we introduced the new 88P and 82P Handsaws, we asked over a hundred skilled carpenters to test these saws thoroughly for a period.

Our leaflet No. E.52/1 gives the questions we asked and their replies.

## OUR "MONEY BACK" WARRANTY.

Every Spear & Jackson Saw which has this "Money Back" Guarantee Label is included in this Warranty. Each Saw is carefully examined before leaving our Works, and is warranted to be as true as it is possible to make it.

If found defective in any way it may be returned and if on examination we are satisfied that the Saw is at fault, all necessary repairs will be made, free of charge, or a new Saw given in exchange, provided it is returned within thirty days from the date of purchase.



The majority of the Hand Saws returned have been broken in the process of resetting the teeth, and the fact that the Saws have been set before leaving the Works is proof that sufficient skill and care has not been used in the process of resetting.

When resetting and sharpening is necessary we recommend a partial filing of the teeth to bring the blunted points to something like their original sharpness—then set the teeth and finish sharpening.

### FREE DISTRIBUTION.

Full instructions regarding the setting, sharpening and general maintenance of Hand and Backsaws are given in our **Wall-Chart E.28/4**, which we gladly supply for free distribution. Get your customers to ask for a free Copy.

A professional Carpenter writes :

"Some time ago you sent me your Wall Chart on "The Care of the Saw." It has caused endless arguments and after giving your way of sharpening thorough tests, I have changed the method used over a period of about 30 years.

I consider your chart the clearest and best instructor met with, in a long and varied experience."



ASK FOR WALL CHART E.28/4.

## POINTS PER INCH.

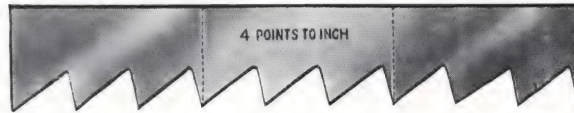
The recognised Standard for determining the tooth required for Handsaws is **POINTS PER INCH.**

Note that both extreme points are included in the inch. We give below **full-size** examples of all Standard Points, and it will be seen that "there is one more point per inch than teeth"—in other words:—

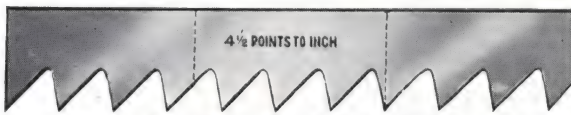
"7 points per inch" equals "6 teeth per inch."

Care in giving this detail correctly will save disappointments in the future.

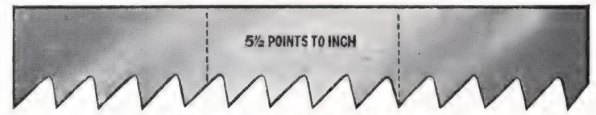
**THE NUMBER stamped on the HEEL of the Saw-blade is the number of POINTS PER INCH.**



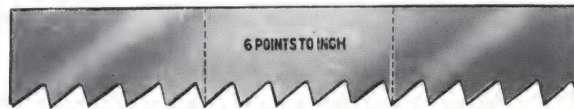
4 points = 3 teeth per inch.



4 1/2 points = 3 1/2 teeth per inch.



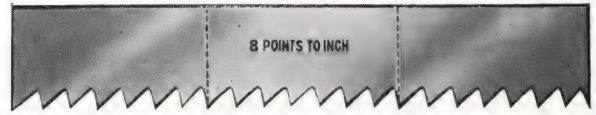
5 1/2 points = 4 1/2 teeth per inch.



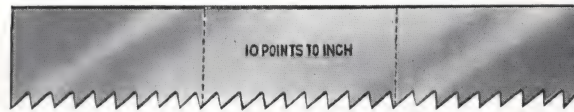
6 points = 5 teeth per inch.



7 points = 6 teeth per inch.



8 points = 7 teeth per inch.



10 points = 9 teeth per inch.



Farmers Tooth.



Baltic Fleam.

When ordering Handsaws, please state whether **CROSS-CUT** or **RIP** tooth is required, as, of course, the length of the saw is no indication. When not otherwise stated, we shall always supply Cross-cut teeth; that is, the ordinary Standard pattern as shown in the illustrations above.

Rip Saw Teeth are made straighter in the front of the tooth; they are solely intended to cut **WITH** the grain, and are **not** suitable for Cross-cutting. Coarse tooth saws, for Farmers and other rough work, should **NOT** be ordered as RIP Saws, but as **COARSE TOOTH** Saws.

The following Table gives the equivalent pitch in millimeters:

Points per inch	...	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	8	9	10	11
Teeth per inch	...	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	7	8	9	10
Pitch or Space	...	12 1/2	10	8 1/2	7 1/4	6 1/2	5 1/2	5	4 1/2	4 1/4	3 1/2	3 1/4	2 3/4	2 1/2 m/m

## “SPEARIOR ” HANDSAWS.

**171P**



**SPEAR & JACKSON'S DOUBLE MERMAID BRAND.**

VANADIUM ALLOY STEEL, Taper ground blade with mirror polish.

Carved English Beech NON-BREAK Handle\* polished all over.

Raised brass screws.

Each Saw enclosed in a separate bag and boxed singly.

		20	22	24	26	28	inches
No. <b>171P</b>	Skew Back ... ..	222/6	235/-	247/6	260/6	283/6	per dozen
„ <b>173P</b>	Straight Back ... ..	218/6	231/-	243/6	256/-	279/-	„

These Saws are the best that can possibly be made, regardless of price. The blades are made from a secret alloy of Vanadium Steel, of great toughness, and will work longer than any other saw without sharpening, being at the same time less likely to buckle in use. They will usually cut through nails or other hard materials in wood without damage, but are not guaranteed in this respect.

A really good Saw should last a life-time, and Vanadium Alloy Steel Saws made by our new process will. They are the result of repeated experiments, a constant endeavour to make the best, and an experience of over 160 years.

**These Saws are specially suitable for Cabinet Makers, Carpenters, etc., where fine and accurate work is essential.**



**Patent No. 401274.**

### \* THE NON-BREAK HANDLE.

Fitted to Patterns	<b>171P</b> and <b>173P</b>	}	Handsaws.
	<b>88P</b> „ <b>82P</b>		
„	<b>260</b> and <b>266</b>	}	Backsaws.
	<b>46</b> „ <b>52</b>		

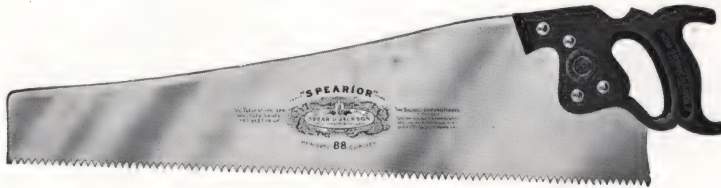
The new “Non-Break” Spearior Handle (Patent No. 401274) is fitted with a dowel through the grip (which since the grain must necessarily run across, is the weakest part of the handle), making it practically unbreakable.

## “SPEARIOR” HANDSAWS

SPEAR & JACKSON'S “MERMAID” BRAND.

See Special Note on Page 55.

SPECIAL ALLOY STEEL Taper ground blade with mirror polish. Warranted London Spring. Selected English Beech NON-BREAK Handle, (see page 58), polished all over. Raised brass Screws.



**88P**

			20	22	24	26	28 inches.
<b>88P</b>	Skew Back	...	129/-	138/6	154/-	154/-	190/6 per dozen



**82P**

			20	22	24	26	28 inches.
<b>82P</b>	Exactly as 88P but Straight Back		124/6	134/6	148/6	148/6	185/6 per dozen

See page 55 for details of our new 88P and 82P Saws.

Both these Saws are specially suitable for Cabinet Makers, Carpenters, etc., where fine and accurate work is essential.

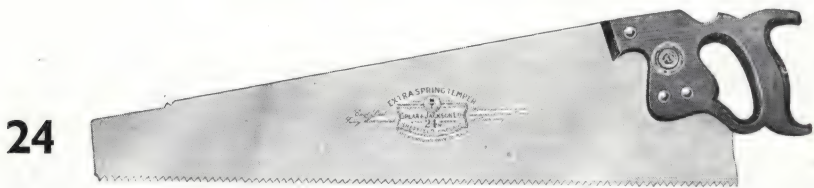
Each Saw is enclosed in a separate bag, four in a box. Saws are sent assorted points, unless definitely specified.

## “ LEAPFROG ” HANDSAWS.

**Spear & Jackson’s “Leapfrog” Brand,** Warranted Alloy Steel, Taper ground, highly polished, Extra Spring Temper. Selected English Beech Handle, polished all over. Raised brass screws.



	20	22	24	26	28	30	inches
25. Skew Back ... ..	107/-	118/6	132/6	136/6	147/-	165/-	per dozen



	20	22	24	26	28	30	inches
24. Exactly as 25 but Straight Back	97/-	107/6	121/-	124/6	134/6	151/-	per dozen

**Both these Saws are specially suitable for Cabinet Makers, Carpenters, etc., where fine and accurate work is essential.**

	24	26	inches
90. Exactly as 24, but Heavy Pattern, for Pit use ... ..	134/-	138/-	per dozen

**Each Saw is enclosed in a separate bag, four in a box. Saws are sent assorted points, unless definitely specified.**

# THE **SPEAR-FAST** HANDSAW.



24                      26 inches

**E39** "Spearfast" Handsaw ... .. 120/-                      124/- dozen  
Made in two sizes only.

**F45** Special file, 6 in., for sharpening **E39** Handsaws ... 18/6 dozen.

**DETAILS OF THE NEW TOOTH FORMATION.**



The "Spearfast" easy-cutting tooth formation is a new way of forming and sharpening saw teeth which enables anyone to work with only two-thirds the effort necessary with an ordinary saw.

Extensive tests of the new "Spearfast" teeth show that, in general, two strokes of the saw accomplish as much as three strokes of a saw provided with ordinary teeth. The resulting saving of effort on a day's work is considerable, especially on heavy rough jobs.

Tests carried out at many Woodworkers' Trade Union branch meetings by members themselves, have convinced them that a "Spearfast" handsaw is not only a very fast cutter for both cross-cutting and ripping, but leaves a very remarkably smooth finish and is also excellent on plywood.

**TESTS OF "SPEARFAST" SAWS.**

Comparative tests have been made by independent persons of all degrees of skill from amateurs to skilled joiners. In each test, compared with ordinary saws, the "Spearfast" Saw took only two-thirds or less the number of strokes to do the same amount of work. In the case of one series of tests on handsaws, the finest quality handsaw with ordinary teeth took a total of 179 strokes; the corresponding number of strokes for a "Spearfast" saw was only 114, to do exactly the same amount of work.

The "SPEARFAST" tooth formation, as used on the "SPEARFAST" handsaw, is available on:—

- TWO-MAN CROSS-CUT SAWS ... .. see page **52**
- PRUNING SAWS ... .. see page **69**
- ONE-MAN CROSS-CUT SAWS AND TUBULAR FRAME SAWS ... .. see page **80**

FOR SHARPENING INSTRUCTIONS REFER TO PAGE **53**.  
Each Saw is enclosed in a separate bag, four in a box

## “SOVEREIGN” HANDSAWS.

The “Sovereign” Hand Saw, Warranted Cast Steel, Taper Ground. English Beech Handle, Polished all over, raised brass Screws.

**179**



	18	20	22	24	26	28 inches
179. Skew Back ... ..	82/-	86/-	90/-	94/-	98/-	111/- per dozen

**62**



	12	14	16	18	20	22	24	26	28 inches
62. Exactly as 179 but Straight Back ...	60/-	64/-	68/-	72/-	76/-	84/-	90/-	96/-	108/- per dozen

**64**



	24	26 inches
64. Exactly as 62 but Special Farmer's American Tooth... ..	99/-	104/6 per dozen
91. " " " " Heavy Pattern, for Pit use ... ..	96/-	102/- "

Each of the above Saws is enclosed in a separate bag, four in a box. 179 and 62 Saws are sent assorted points, unless definitely specified.



## “AETNA” HANDSAWS

The “Aetna” Hand Saw (“John Cockerill”) Warranted Cast Steel.  
English Beech Handle, Polished all over, brassed screws.



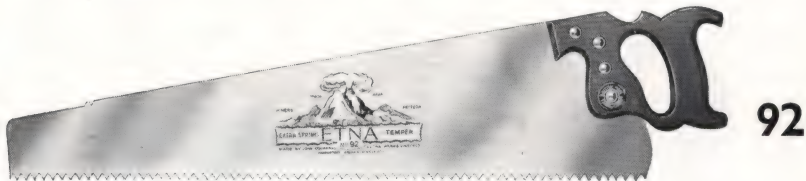
			14	16	18	20	22	24	26	28	inches
60. Skew Back	...	...	45/-	46/6	49/-	53/-	57/-	64/6	68/6	79/6	per dozen



			10	12	14	16	18	20	22	24	26	28	30	inches
66. Exactly as 60 but Straight Back	...	...	40/-	41/6	43/-	44/6	47/-	51/-	56/6	63/-	66/-	80/-	92/-	per dozen



									24	26	inches
186. Exactly as 66 but with Special Farmer's American Tooth	...	...	...	...	...	...	...	...	72/-	78/-	per dozen



									24	26	inches
92. Exactly as 66 but Heavy Pattern, for Pit Use	...	...	...	...	...	...	...	...	64/-	68/-	per dozen

All the above Saws are packed half dozen per Box.  
Nos. 60 and 66 are sent assorted points unless otherwise specified.

## “COCKERILL” HANDSAWS

Cast Steel, Beech Handles, Polished Black all over. Brassed Screws.



99

	Size	14	16	18	20	22	24	26	28	30 ins.
99 Skew Back ...										
100 Exactly as 99 but Straight Back		35/6	36/-	38/-	41/-	45/6	51/-	53/6	58/-	68/- doz.

12



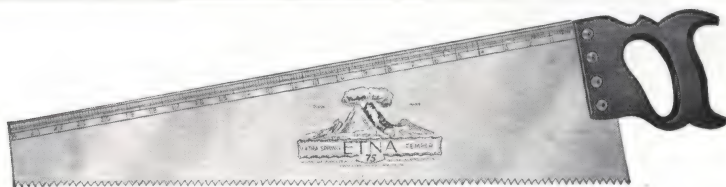
12 Double Edge Household Saw ... Size 16 18 inches  
... 36/- per dozen

69



69 Exactly as 100 but with Special Farmer's American Tooth ... Size 24 26 ins.  
... 57/6 61/- doz.

75



75 Rule Back Handsaw. "Aetna" Quality. Cast Steel. Beech Handle. Polished all over. Brassed Screws.

24 inches, 77/- dozen. 26 inches, 82/- dozen.

330



330 THE "ODD JOB" all-purposes handsaw (as supplied with our "ODD-JOB MAJOR" household repair outfit) cuts almost any material—wood, wire, bolts, nuts, galvanised iron, fibre, brass or copper and any soft metal. Made in one size only, 16 inches 48/- dozen.

All the above Saws are packed half dozen per Box.

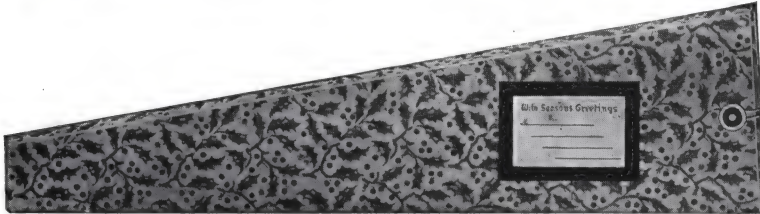


**180**

**No. 180. JUNIOR SAW.**

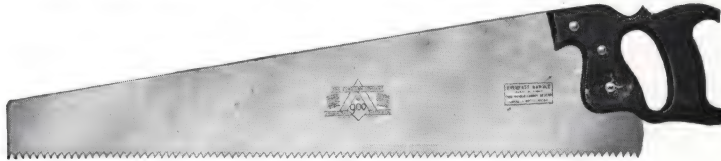
**An Ideal Present for a Boy.**

Hollow Back. Handsaw Warranted Cast Steel. Beech Handle. Polished all over. Brassed Screws.



Size 22 inch 8 point ... 48/- per dozen.

Each Saw packed in an attractive Carton ready for posting.



**900**

Made from Sheffield Steel. Black (Everfast) Polished Handle (Patent No. 379,518).

	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	inches
No. 900 Straight Back	20/-	20/6	21/-	22/-	23/-	26/6	28/6	31/-	33/-	34/-	39/6	47/6	54/-	56/-	58/6	dozen



**901**

**No. 901. Backsaw.** Made from Sheffield Steel. Black Polished Handle.

	10	12	inches
	28/6	31/-	dozen



**902**

**No. 902. Compass Saw.** Made from Sheffield Steel. Black Polished Handle.

12 inch ... 20/- dozen.

(Patent applied for.)



**300**

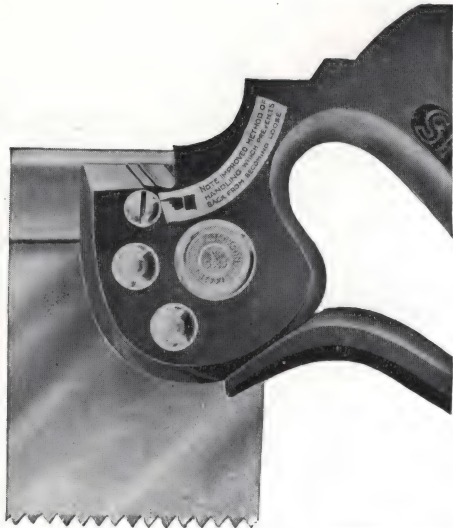
**No. 300. Handsaw** with new improved grip, particularly comfortable to the hand, and easy to work.

	16	18	20	22	24	26	inches
	19/6	22/9	24/-	26/6	28/6	29/6	dozen

Nos. 900, 901, 902 and 300 saws are packed half dozen per box and are supplied only in multiples of half dozen

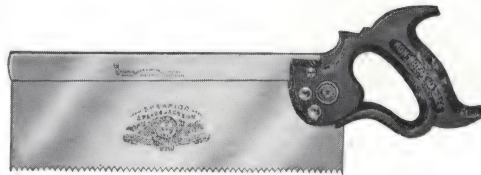
## BACK OR TENON SAWS.

### Special Features of our "Spearior" and "Leapfrog" Back Saws.



Note the screw which goes right through the handle and metal back preventing the possibility of the back becoming loose and buckling the thin plate.

**260**

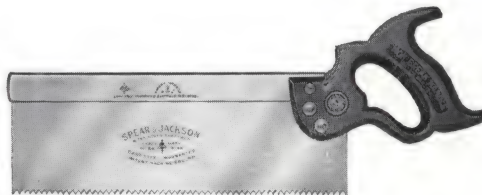


Corresponds in quality to our No. 88P "Spearior" Handsaw.

**S. & J.'s "Spearior" Brand.** Made from the finest Alloy Steel. Extra High Grade finish and fitted with our patent "Non-Break" best English Beech Handle, (see page 58). Polished all over. Raised Brass Screws.

				10	12	14	inches
No. 260	Bright Back	...	...	159/6	171/-	182/6	dozen
" 263	Blued "	...	...				
" 266	Brass "	...	...				

**46**



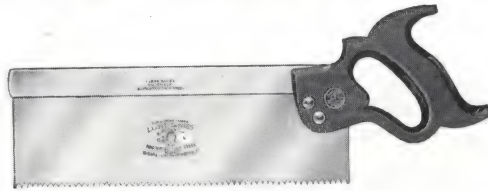
**S. & J.'s "Leapfrog" Brand, Warranted Cast Steel.** Fitted with our patent "Non-Break" English Beech Handle (see page 58). Polished all over. Raised brass screws.

				8	10	12	14	16 inches
No. 46	Bright Back	...	...	120/6	120/6	129/6	138/6	155/6
" 49	Blued "	...	...					
" 52	Brass "	...	...					

No. 46A Bright Back, handle polished all over, raised brass screws, 8", 26G., 20 points, specially adapted for fine Cabinet work. (Price as 46).

No. 52A Similar to above, but with Brass Back. (Price as 52).

Each of the above Saws is enclosed in a separate bag, four in a box.



**47**

No. 47 "Lloyd Davies" Brand, Warranted Cast Steel. Beech Handle. Polished all over. Raised Brass Screws.

				8	10	12	14	16	18	20	22	inches
No. 47	"Lloyd Davies"	bright back	...	89/-	89/-	101/-	116/-	129/-	142/-	154/-	166/-	dozen
" 50	"	blued "	...	110/-	110/-	120/-	135/-	—	—	—	—	"
" 53	"	brass "	...									

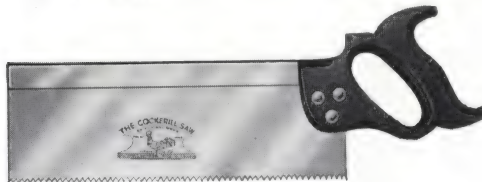
Packed one-third dozen in box.



**55**

No. 55 "Aetna" Quality, Cast Steel. Beech Handle, Polished all over. Raised Brass Screws.

					8	10	12	14	16	inches
No. 55	Bright Back	...	...	...	57/-	62/-	69/-	81/-	92/-	dozen
" 56	Blued "	...	...	...	75/-	80/-	85/-	100/-	—	"
" 57	Brass "	...	...	...						



**22**

No. 22 "Cockerill," Cast Steel. Beech Handle, Polished Black all over. Raised Brass Screws.

				8	10	12	14	inches
No. 22	Bright Steel Back	44/-	48/-	52/-	56/-	dozen		

No. 199 "Goblin" Back Saw, Cast Steel. Beech Handle, Light polished on edges only. Brass Screws. Bright Back.

				8	10	12	14	inches
No. 199	...	36/-	40/-	44/-	48/-	dozen		

Length of Blade 4 5 6 7 inches

No. 154 Gent's Backsaws, Beech Handle. ... 16/6 18/- 21/- 23/6 dozen

Patterns 55, 56, 57, 22, 199 and 154 are packed half dozen per box.

**HAND & BACK SAW HANDLES.**

For illustrations see relative Saw Patterns on pages 58 to 67.

For Pattern	Slit, not Bored	Slit and Bored	Complete with Screws
171 and 173	44/-	45/-	57/- dozen
88 " 82	36/-	37/-	49/- "
25 " 24	28/-	29/-	37/- "
179 " 62	24/-	25/-	31/- "
60 " 66	16/-	17/-	20/- "
99 " 100	14/-	15/-	19/- "
260, 263, 266	42/-	43/-	51/- "
46, 49, 52	30/-	31/-	37/- "
47, 50, 53	24/-	25/-	30/- "
55, 22 and 199	18/-	19/-	22/- "

Saw Screws of various types: prices on application.



**No. 104 PAD SAWS.**

Dark Handle, complete with 7 inch Blade.  
25/- per dozen.



161  
108



102  
103

**BLADES ONLY.**

161 "Mermaid" Brand, Set and Sharpened, Straw Colour, Ground thin to Back ... ..  
108 "Leapfrog" Brand (Bright) ... ..

	7	8	9	10	11	12	13	14 inches
161	3/8	4/-	4/3	4/6	4/10	5/3	5/8	6/3 dozen
108	3/-	3/4	3/6	3/8	3/10	4/-	4/2	4/4 "

**HANDLES ONLY.**

102 Large, 8 in. long ... .. 28/- dozen.

103 Small, 7 1/4 in. long ... .. 16/- dozen

**METAL PAD SAW.**

No. 109 Metal Pad Saw, black japanned handle, complete with 7 inch blade ... .. 22/- dozen

Packed in Cardboard Boxes of one dozen.



**COMPASS OR LOCK SAW.**

English Beech Handle, N.P. raised Screws.

12 14 16 inches

No. 28 S. & J's "Mermaid" Brand 33/- 34/- 35/6 dozen  
No. 29 "John Cockerill" Brand... 27/- 28/6 — "



**NESTS OF INTERCHANGEABLE SAWS.**

**TABLE or PRUNING BLADES, 18 inches long.**

No. 273 "Mermaid" ... .. 30/- doz.  
No. 273A "John Cockerill" ... .. 17/- "  
No. 273B "Goblin" ... .. 10/- "

**COMPASS BLADES, 14 inches long.**

No. 274 "Mermaid" ... .. 16/- "  
No. 274A "John Cockerill" ... .. 9/- "  
No. 274B "Goblin" ... .. 6/- "

**COMPASS BLADES, 12 inches long.**

No. 274 "Mermaid" ... .. 14/- "  
No. 274A "John Cockerill" ... .. 8/- "  
No. 274B "Goblin" ... .. 5/6 "

**KEYHOLE BLADES, 10 inches long.**

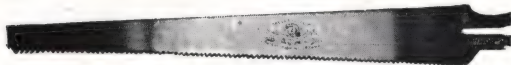
No. 275 "Mermaid" ... .. 12/- "  
No. 275A "John Cockerill" ... .. 7/- "  
No. 275B "Goblin" ... .. 5/- "

**HANDLES, Lever Pattern.**

No. 271 Best quality ... .. 22/- "  
No. 325 Cheaper quality ... .. 12/- "

**HANDLES, Screw Pattern.**

No. 278 Best quality ... .. 22/- "  
No. 324 Cheaper quality ... .. 12/- "



271 Lever



278 Screw

No. 277 "Mermaid" Nests of Saws with Blades Nos. 273 (18"), 274 (14") & 275 (10") & 271 Lever handle ... 80/- doz.  
No. 279 "Mermaid" Nests of Saws with Blades Nos. 274 (14" & 12") & 275 (10") and 271 Lever handle ... 64/- "  
No. 269 "Mermaid" Nests of Saws with Blades Nos. 273 (18"), 274 (14") & 275 (10") and 278 Screw handle 80/- "  
No. 287 "John Cockerill" Nests of Saws with "J.C." blades 18", 14" & 10" and 325 Lever handle ... 45/- "  
No. 288 "John Cockerill" Nests of Saws with "J.C." blades 18", 14" & 10" and 324 Screw handle ... 45/- "  
No. 298 "Goblin" Nests of Saws with "Goblin" blades 18", 14" & 10" and 324 Screw handle ... 28/- "  
No. 299 "Goblin" Nests of Saws with "Goblin" blades 18", 14" & 10" and 325 Lever handle ... 28/- "

# THE **SPEAR-FAST** PRUNER.



	Fitted with	...	12	24	30 inch handles
<b>E41</b>	"Spearfast" Pruning Saw. 14 in. Blade	...	6/1	7/3	7/3 each
	<b>F45</b> Special file, 6 in., for sharpening <b>E41</b> Pruning Saws	...	18/6 dozen.		

The "SPEARFAST" tooth formation, as used on the "SPEARFAST" pruning saw, is available on :—

TWO-MAN CROSS-CUT SAWS	...	...	...	...	see page 52
HANSAWS	...	...	...	...	see page 61
ONE-MAN CROSS-CUT SAWS AND TUBULAR FRAME SAWS	...	...	...	...	see page 80

FOR SHARPENING INSTRUCTIONS REFER TO PAGE 53.

# THE "DAWYCK" TREE PRUNING SAW.

Made to the design of  
**Mr. F. R. S. BALFOUR, V.M.H.**



Royal Horticultural Society Award of Merit.

Complete with 2 Webs 20 in. (Tooth No. 1 and 2)	..	..	14/-	each
Spare Webs, 20 in., No. 1 or No. 2	..	..	18/-	doz.
(No. 1 is the ordinary style of tooth and No. 2 is the "SPEARFAST" special fast cutting tooth.)				

An Ideal Tree Pruner. The fine point facilitates use at the fork of two branches or wherever there is not much clearance. The blades can be easily replaced and turned to any angle.

**PRUNING SAWS.**



No. 336.



No. 335.

**No. 335 & 336 PRUNING SAW.**

16 inch Frame ...	...	104/-	per doz.
(complete with blade)			
Blades for same ...	...	11/6	..



**LIGHTNING PATTERN PRUNING SAW. Double Edge.**

	14	16	18	20	inches
No. 73 "Mermaid" Brand.	68/-	71/-	74/-	78/-	dozen
No. 13 "John Cockerill" Brand.	46/-	48/-	50/-	52/-	..



**TABLE OR PRUNING SAW.**

	14	16	18	20	inches
No. 27 "Mermaid" Brand ...	53/-	56/-	59/-	62/-	dozen
No. 44 "John Cockerill" Brand	36/-	39/-	42/-	45/-	..

Number 335, 336, 73, 13, 27, & 44 are packed half dozen per box.



No. 221 Grecian curve, pistol grip, 4 brass rivets.

12	14	16	inches
39/-	40/-	41/-	dozen



No. 227 Californian curve, pistol grip, 2 brass rivets.

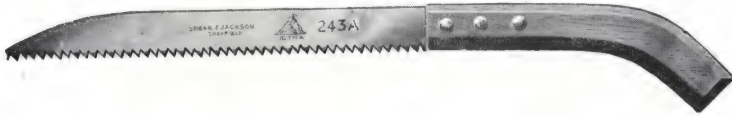
12	14	16	inches
42/-	43/-	44/-	dozen





No. 243 Straight Blade, pistol grip, 3 brass rivets.  

12	14	16	inches
33/-	34/-	35/-	dozen



No. 243A Straight Blade (coarse tooth), pistol grip, 3 brass rivets.  

12	14	16	inches
33/-	34/-	35/-	dozen



No. 251 Australian Pattern, pistol grip, 2 nickel plated screws.  

12	14	16	inches
40/-	41/-	42/-	dozen



No. 313 Half curve, pistol grip, 4 brass rivets.  

12	14	16	inches
46/-	47/-	48/-	dozen



No. 314 Full curve, pistol grip, 3 brass rivets.  

12	14	16	inches
42/-	43/-	45/-	dozen



No. 338 Grecian Curve, taper ground pistol grip, 2 nickel plated screws, handles polished all over.  

12	14	16	inches
46/6	47/6	48/6	dozen



No. 252 "John Cockerill" Quality.  
**Made by mass production.**  

12	14	16	inches
17/6	18/6	19/6	dozen

## BUTCHERS' BOWSAWS.

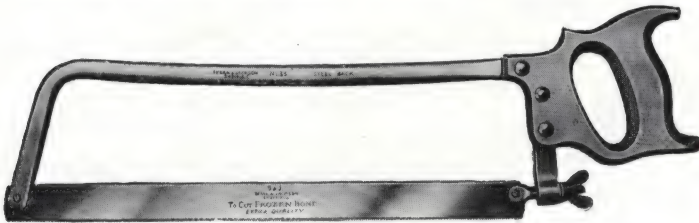


20

**Thumbscrew Bow Saw. "Mermaid" Brand.** Bright Flat Back, English Beech Handle, polished on edges, three raised iron screws.

Blades	12	14	16	18	20	22	24	inches
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Complete with 1 1/4 in. bright blade ...	104/-	110/-	112/-	118/-	124/-	128/-	134/-	dozen
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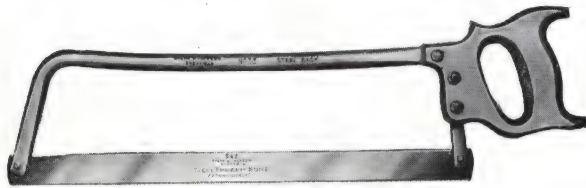


33

**Thumbscrew Bow "Mermaid" Brand.** Bright oval Steel Back, selected English Beech Handle, polished on edges, three Raised Brass Screws.

Blades {	12	14	16	18	20	22	24	inches
	1 1/4	1 1/4	1 1/4	1 1/4	1 3/4	1 3/4	1 3/4	"

Complete with bright blade ...	100/-	103/-	106/-	112/-	120/-	122/-	128/-	dozen
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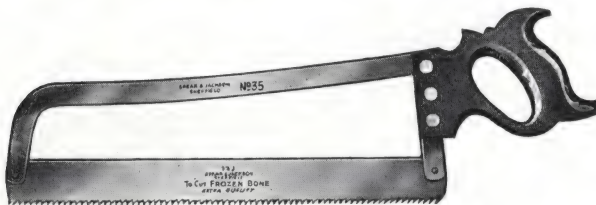


34

**Butcher's Bow Saw, Screw fastened detachable blade. "Mermaid" Brand.** Bright oval Steel Back, selected English Beech Handle, polished on edges, three Raised Brass Screws.

Blades {	12	14	16	18	20	22	24	inches
	1 1/4	1 1/4	1 1/4	1 1/4	1 3/4	1 3/4	1 3/4	"

Complete with bright blade ...	82/-	86/-	88/-	98/-	102/-	106/-	112/-	dozen
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35

**"Smithfield" Pattern Riveted Bow.** Selected English Beech Handles, unpolished.

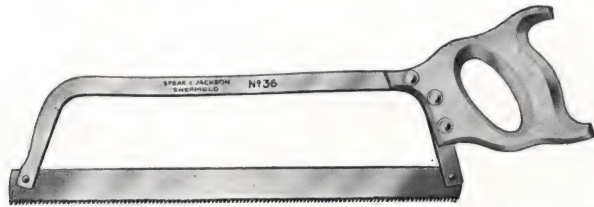
Blades {	12	14	16	18	20	22	24	inches
	1 1/4	1 1/4	1 1/4	1 1/4	1 3/4	1 3/4	1 3/4	"

No. 35 Complete with bright blade ...	78/-	80/-	84/-	88/-	94/-	96/-	104/-	dozen
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No. 35W Complete with STAINLESS blade ...	—	108/-	116/-	124/-	132/-	—	—	"
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No. 35S STAINLESS frame and complete with STAINLESS blade, white sprayed handle ...	—	180/-	192/-	204/-	216/-	—	—	"
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Pattern Nos. 33, 34 and 35 fitted with No. 370 Blades; See page 75 for details of widths, thicknesses and points per inch.



36

**Kitchen Bow Saw.** "Leapfrog" Brand. Bright Flat Steel Back, White cellulosed Beech Handle, Nickel-plated brass screws.

Blades (bright) ... ..	14×1	16×1	inches
Price, complete ... ..	74/-	78/-	dozen
„ Blades only ... ..	20/-	22/-	„



37

**Household Bow Saw.** "John Cockerill" Brand. Bright Flat Steel Frame, Beech Handle, light polished all over.

Price, complete with 14-inch bright Blade ... .. 40/- dozen.



290

**Butcher's Bow Saw.** "Mermaid" Brand. Flat Back, English Beech Handle, polished on edges, four raised brass screws.

Blades	12	14	16	18	20	22	24	inches
Price complete with 2 inch blued blade	108/-	114/-	118/-	122/-	126/-	132/-	140/-	dozen

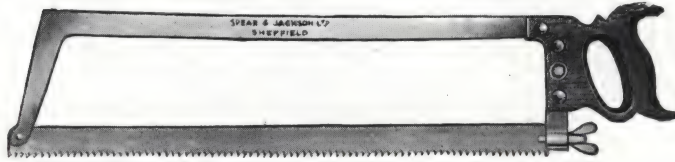


291

**Butcher's Bow Saw.** "Mermaid" Brand. Flat Back, English Beech Handle, polished on edges, three raised brass screws.

Blades	12	14	16	18	20	22	24	inches
Price complete with 1 inch blued blade...	105/-	110/-	112/-	118/-	122/-	124/-	130/-	dozen

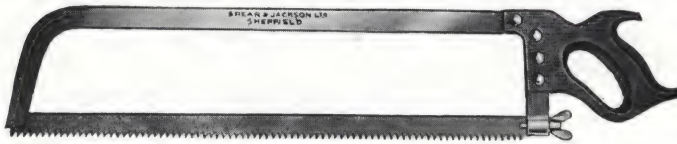
292



**Butcher's Bow Saw.** "Mermaid" Brand. Flat Back, English Beech Handle, polished on edges, four raised brass screws.

Blades ...	12	14	16	18	20	22	24 inches
Price complete with 1½ inch bright blade	106/-	112/-	114/-	118/-	124/-	128/-	132/- dozen

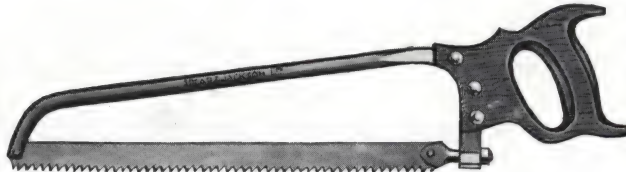
293



**Butcher's Bow Saw.** "Mermaid" Brand. Bright Flat Back, English Beech Handle, polished on edges, four raised nickel-plated screws.

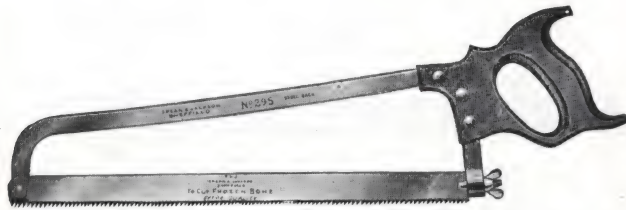
Blades ...	12	14	16	18	20	22	24 inches
Complete with 1 inch bright blade	108/-	114/-	116/-	120/-	122/-	132/-	138/- dozen

294



**Pork Packer's Saw.** "Mermaid" Brand. Bright Oval Back, English Beech Handle, polished on edges, three raised brass screws.

Blades ...	12	14	16	18	20	22	24 inches
Complete with 1 inch bright blade	100/-	102/-	104/-	112/-	114/-	120/-	125/- dozen



295

**Pork Packer's Saw.** "Mermaid" Brand Bright Flat Back, English Beech Handle, polished on edges, three raised brass screws.

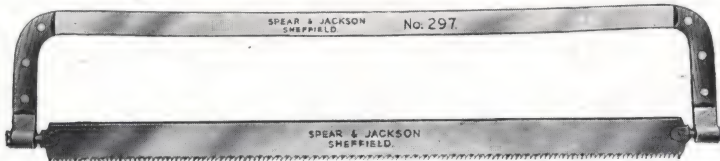
Blades ...	12	14	16	18	20	22	24	inches
Complete with 1 inch bright blade ...	100/-	102/-	104/-	112/-	114/-	120/-	125/-	dozen



296

**Beef Splitting Saw.** "Mermaid" Brand. Bright Flat Back, English Beech Handle, polished on edges, four raised brass screws.

Blades ...	28	30	32	34	inches
Complete with 2 inch bright heavy blade ...	226/-	230/-	240/-	250/-	dozen



297

**Beef Splitting Saw.** "Mermaid" Brand. Bright Flat Back, polished English Beech Grips, flat brass screws.

Blades	32	34	36	42	inches
Complete with 2 inch bright heavy blade ...	348/-	354/-	376/-	415/-	dozen

Special Fastening Screws at each end.

**Bright Butchers' Blades,** "Mermaid" Brand, extra quality, specially tempered, for frozen carcasses, for all patterns of Bows. Blades 23G thick and 11 points per inch, up to 18 inches; over 18 inches, 21G thick and 9 points per inch.

370

Length of blades ...	14	16	18	20	22	24	inches
Standard Width ...	1 1/4	1 1/4	1 1/4	1 3/4	1 3/4	1 3/4	"

371 Cheaper Quality (not for frozen bone)	20/3 13/-	24/- 14/-	25/6 17/-	27/- 18/6	28/6 20/-	30/- 22/-	dozen "
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"Mermaid" Brand, extra cast steel in coils (bright, toothed only) for making up into Bow Saw Blades.

3/4	1	1 1/4	1 1/2	1 3/4	2	inches wide
1/6	1/9	2/5	3/-	3/7	4/2	per yard

## BUCK SAW BLADES.



No. 198. TYPE E



No. 198. TYPE D.

### RAPID SILVER BACK BUCK SAW BLADES.

**Extra Best "Mermaid" Quality :** extra thin to back, blue or straw colour, with white back edge. Peg Tooth with square bottom, 7 m/m space, set and sharpened.

Length ft.	2	2½	3	3½	4	4½	5	5½	6	6½	feet
" m/m	600	750	900	1050	1200	1350	1500	1650	1800	1950	m/m
Width, m/m	35	35	35	35	35	35	35	35	35	35	m/m

No. 198. Without Tabs	...	22/-	22/6	23/-	23/6	24/-	24/9	25/6	26/3	27/-	doz.
With Screw Tabs	...	25/6	26/-	26/6	27/-	27/6	28/3	29/-	29/9	30/6	"

Kindly say whether Type E or D required ; if this is not specified, we always supply Type E, without Tabs.



No. 780.

### EXTRA BEST "MERMAID" QUALITY BUCK SAW WEBS.

Ground thin to back ; bright polished ; straight tooth set and sharpened ; two holes at each end of blade : without tabs.

Length ft.	2	2½	3	3½	4	4½	5	5½	6	6½	feet		
" m/m	600	750	900	1050	1200	1350	1500	1650	1800	1950	m/m		
50m/m wide	...	21/-	22/-	23/-	24/-	25/-	26/-	27/-	29/-	30/-	31/6	doz	
35m/m "	...	19/-	19/6	20/-	20/6	21/-	22/-	23/-	25/-	26/-	27/-	29/6	"
25m/m "	...	17/-	17/6	18/-	19/-	19/6	20/-	21/-	23/-	24/-	25/-	27/6	"



No. 790.

### BEST ETNA QUALITY BUCKSAW WEBS.

Flat ground ; straw coloured or blue ; straight tooth set and sharpened ; two holes at each end of blade ; without tabs.

Length ft.	2	2½	3	3½	4	4½	5	5½	6	6½	feet		
" m/m	600	750	900	1050	1200	1350	1500	1650	1800	1950	m/m		
50m/m wide	...	18/-	19/-	20/-	21/-	22/-	23/-	24/-	27/-	28/-	29/-	31/6	doz.
35m/m "	...	16/-	16/6	17/-	17/6	18/-	19/-	20/-	23/-	24/-	25/-	27/6	"
25m/m "	...	14/-	14/6	15/-	16/-	16/6	17/-	18/-	21/-	22/-	23/-	25/6	"

Unless otherwise ordered, Patterns 780 and 790 will be supplied with Straight Tooth 3½ teeth per inch of 25m/m for Saws of 50 and 35 m/m broad, and with Peg Tooth square bottom, for the Saws of 25 m/m broad.



**TABS.** If required WITH TABS, add 3/6 per dozen Saws.

## BREASTED SAW BLADES.



### Extra Best "Mermaid" Brand Breasted Saw Blades.

Ground thin to back ; bright polished ; straight tooth set and sharpened.

No. 698. Wide Pattern : 70 m/m broad in middle, 50 m/m at ends.  
No. 700. Medium " 60 m/m " " 45 m/m "  
No. 704. Narrow " 50 m/m " " 40 m/m "

Length, ft.	2		2½		3		3½		3¾		4	
	m/m	600	675	700	750	800	850	900	975	1000	1050	1125 m/m
No. 698. Wide	...	28/-	29/6	30/-	31/-	32/-	33/-	34/-	36/-	37/-	39/-	41/6 doz.
" 700. Medium	...	25/-	26/6	27/-	28/-	29/-	30/-	31/-	33/-	34/-	36/-	38/6 "
" 704. Narrow	...	22/-	23/6	24/-	25/-	26/-	27/-	28/-	31/-	32/-	34/-	36/6 "

## CABINET WEBS.



TYPE A.

No. 870 Standard Pattern.

No. 876 Narrow Pattern.



TYPE B.

No. 860 Standard Pattern.

No. 864 Narrow Pattern.



TYPE C.

No. 850 Standard Pattern.

No. 856 Narrow Pattern.

### Extra Best "Mermaid" Quality Cabinet Webs, Nos. 870, 860 and 850.

Ground thin to back, bright polished, teeth set and sharpened.

Length, inches	16		18		20		22		24		26		28		30		32		34		36		38		40 ins.	
	m/m	400	450	500	550	600	650	700	750	800	850	900	950	1000	m/m	500	550	600	650	700	750	800	850	900	950	1000 m/m
Width, m/m	...	35	35	35	35	35	35	40	40	40	45	45	45	50	50	50	50	50	50	50	50	50	50	50	50	50 m/m
Teeth in 1" (25m/m)	...	8	8	7-8	7-8	6-7	6-7	6-7	6-7	6-7	5-7	5-7	5-7	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6
Straight Tooth	...	17/-	17/6	18/-	18/6	19/-	20/-	21/-	22/-	23/-	25/-	26/-	28/-	29/6	doz.											
Leaned Tooth	...	14/-	14/6	15/-	15/6	16/-	17/-	18/-	19/-	20/-	22/-	23/-	25/-	26/6	doz.											

#### Narrow Cabinet Webs : 1" (25m/m) broad, Nos. 876, 864 and 856.

Length ins.	16		18		20		22		24		26		28		30		32		34		36 ins.				
	m/m	400	450	500	550	600	650	700	750	800	850	900	950	1000	m/m	500	550	600	650	700	750	800			
Straight Tooth	...	15/-	15/6	16/-	16/6	17/-	18/-	19/-	20/-	21/-	22/-	23/-	25/-	26/6	doz.										
Leaned Tooth	...	12/-	12/6	13/-	13/6	14/-	15/-	16/-	17/-	18/-	19/-	20/-	22/-	23/6	doz.										



Straight tooth.



Leaned tooth.



Handsaw tooth.

**Note.**—With regard to patterns 850 and 856 the dimensions above indicate the toothed portion. The tangs are 60 m/m long. The price is to be taken on the next higher size.

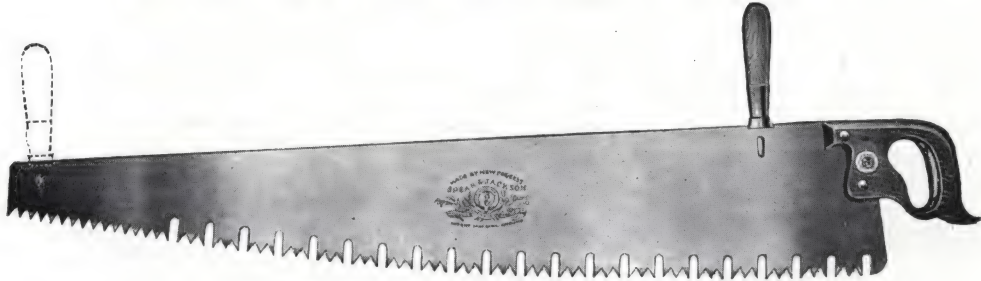
Saws with extra fine Leaned Teeth (12 teeth per inch and over) are charged as for Straight Tooth. Special price for Saws 15 teeth per inch and over.

All the above prices are WITHOUT TABS. If required WITH TABS add 3/6 per dozen Saws





## ONE MAN CROSS-CUT SAWS.



200, 202, 1202 Great American Tooth.

PEG TOOTH.



Nos. 204, 209

TENON TOOTH.



Nos. 203, 205

LIGHTNING TOOTH.



Nos. 206, 210

TASMANIAN TOOTH



Nos. 201, 214

Selected English beech handles, brass screws, with one supplementary handle.

**"Mermaid" Brand, Extra quality.**

	2½	3	3½	4	4½	5 feet.
No. 200 Great American Tooth ... ..						
„ 201 Tasmanian Tooth ... ..						
„ 203 Tenon Tooth ... ..						
„ 204 Peg Tooth ... ..						
„ 206 Lightning or Lumberman Tooth ... ..						
	10/3	12/3	14/-	16/-	18/-	20/6 each.

**"Aetna" Brand, Medium Quality.**

No. 202 Great American Tooth ... ..						
„ 205 Tenon Tooth ... ..						
„ 209 Peg Tooth ... ..						
„ 210 Lightning or Lumberman Tooth ... ..						
„ 214 Tasmanian Tooth ... ..						
	8/6	9/6	11/-	12/9	14/9	17/- „

**"Cockerill" Brand—Cheap Quality.**

No. 1202 Great American Tooth ... ..	6/10	7/6	8/4	9/- each.
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## ONE MAN CROSS-CUT FITTINGS



No. 208 Beech handles, slit and bored, complete with screws.

For saws up to 3 feet ...	24/- doz.
For saws 3½ to 5 feet ...	25/6 „



No. 153.  
Supplementary handles, 12/3 doz.

# THE **SPEAR-FAST** TUBULAR FRAME SAWS.

"TAKES THE 'IRK' OUT OF WORK"



**E38**

Fitted with Handguard to prevent knocking the knuckles (Patent applied for.)

Invaluable for use about the Farm and Estate. Suitable for cutting Firelogs, Garden and Fencing Posts, etc.

		24	30	36	inches
<b>E38</b> "Spearfast" Tubular Frame Saw, complete	...	8/-	10/3	12/-	each
Spare Blades for	" "	3/-	3/4	4/-	"
<b>F46</b> Special file, 6 in., for sharpening <b>E38</b> Frame Saws	...		18/6	dozen	



**E42** Extending type

**E42.** "Spearfast" extending tubular frame saw.

To take 48in. or 42in. blades :—

Complete with 48in. blade, **16/4** each.

" " 42in. " **15/9** "

To take 42in. or 36in. blades :—

Complete with 42in. blade, **15/9** each.

" " 36in. " **14/10** "

(When ordering please specify which frame required).

Spare blades for **E42** frame saws :—

Length	48	42	36	inch
Width	2	2	1 3/8	"

**6/6** **5/6** **4/-** each

**F46** Special file, 6in. for sharpening

**E42** Frame saws ... **18/6** dozen.

# THE **SPEAR-FAST** ONE-MAN CROSS-CUT SAW.

TWO STROKES DO THE WORK OF THREE.



		3	3 1/2	4	feet
<b>E40</b> "Spearfast" One-Man Cross-Cut Saw (Complete with supplementary handle. Made in three sizes only)	...	12/3	14/-	16/-	each
<b>F47</b> Special file, 8 in., for sharpening <b>E40</b> One-Man Cross-Cut Saws	...		19/6	dozen.	

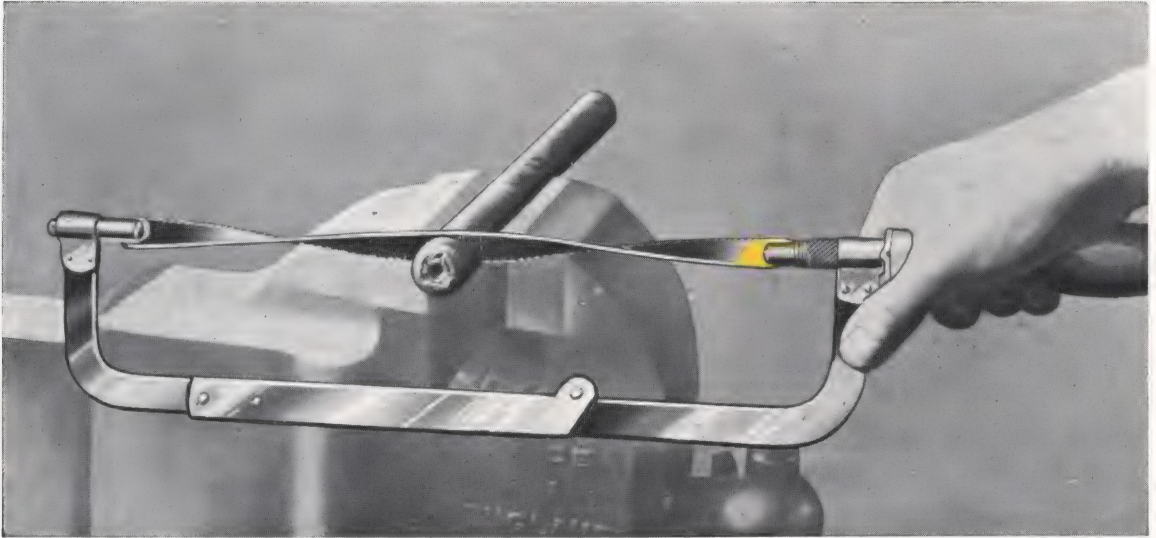
The "SPEARFAST" tooth formation, as used on the "SPEARFAST" One-man Cross-Cut Saws and frame saws, is available on :—

TWO-MAN CROSS-CUT SAWS, see page 52. HANDSAWS, see page 61. PRUNING SAWS, see page 69.

FOR SHARPENING INSTRUCTIONS REFER TO PAGE 53.

# HACKSAW BLADES

## THE FAMOUS "YELLOW TIP" BRAND



"Neverbreak" Hacksaws will stand this test.

SUPPLIED IN THREE TYPES

SPRING-BACK	- MARKED	<b>NEVERBREAK</b>
ALL HARD	- - MARKED	<b>SPEARIDR</b>
HIGH SPEED	- MARKED	<b>SPEARIDR</b>

### The trouble with Hacksaws

is that "Flexible" "Soft back" etc. varieties mostly don't keep their edge (or the teeth strip), while most "All hard" blades break in use before worn out.

The New "NEVERBREAK" Saw has been proved by repeated official tests equal to the best all Hard blade made and the punishment which it will stand before fracture can be judged by the photo above—but better still by personal trial.

**IMPORTANT NOTE.**—Tungsten Blades are made in two types—All Hard and “Neverbreak.” Unless otherwise specified hand blades will be supplied in “Neverbreak” and Power Blades in “All Hard.” High Speed Blades come under neither heading and must be specified as “High Speed.”

	Length	Width	Thickness	TEETH PER INCH			List Prices per Gross	
				Mild Steel, Cast Iron, and General Use	Tool Steel	Brass		Thin Tubing and Sheet
<b>“Yellow Tip” HAND BLADES</b> TUNGSTEN STEEL. Supplied “NEVERBREAK” unless otherwise specified. (See note above).	In. 8	In. $\frac{7}{16}$	Gauge 23	14	18	22	32	£1 13 4
	8	$\frac{1}{2}$	23	14	18	22	32	
	9	$\frac{1}{2}$	23	14	18	22	32	1 17 6
	10	$\frac{1}{2}$	23	14	18	22	32	2 1 8
	11	$\frac{1}{2}$	23	14	18	22	32	2 5 10
	12	$\frac{1}{2}$	23	14	18	22	32	2 10 0
<b>“Spearior” “Yellow Tip” HAND BLADES</b> HIGH SPEED STEEL.	In. 8	In. $\frac{1}{2}$	Gauge 23	14	18	22	32	£6 13 4
	9	$\frac{1}{2}$	23	14	18	22	32	7 10 0
	10	$\frac{1}{2}$	23	14	18	22	32	8 6 8
	12	$\frac{9}{16}$	23	14	18	22	32	11 5 0

	Length	Width	Thickness	Teeth per Inch	List Prices per Gross
<b>“Spearior” “Yellow Tip” DOUBLE EDGE BLADES.</b> TUNGSTEN STEEL.	In. 9	In. 1	Gauge 21	22	£4 1 0
	10	1	21	22	4 10 0
	12	1	21	22	5 8 0
	14	1	21	22	6 6 0

	Length	Width	Thickness	TEETH PER INCH			List Prices per Gross	
<b>“Spearior” “Yellow Tip” LIGHT POWER BLADES.</b> TUNGSTEN STEEL.	In. 12	In. $\frac{9}{16}$	Gauge 22	14	18	22	32	£2 18 6
	12		22	14	18	22	32	3 5 0
	12		21	14	18	22	...	3 7 6
	12		21	14	18	22	...	4 1 0
	14	$\frac{9}{16}$	22	14	18	22	32	3 8 3
	14		21	14	18	22	...	4 14 6
	16	$\frac{3}{4}$	21	14	18	22	...	5 8 0

	Length	Width	Thickness	TEETH PER INCH			List Prices per Gross
<b>“Spearior” “Yellow Tip” LIGHT POWER BLADES.</b> HIGH SPEED STEEL.	In. 12	In. $\frac{5}{16}$	Gauge 21	14	18	22	£13 10 0
	12		21	14	18	22	16 4 0

**“SPEARIOR” “YELLOW TIP” POWER BLADES**  
TUNGSTEN STEEL.

Length	Width	Thick-ness	STANDARD TEETH PER INCH				List Prices per Gross
In.	In.	Gauge	...	...	10	14	£4 5 0
12	$\frac{3}{4}$	18	...	...	10	14	5 2 0
12	1	18	...	...	10	14	6 16 0
12	1	17	...	...	10	...	7 12 0
13	1	18	...	...	10	14	7 7 4
14	$\frac{3}{4}$	18	...	...	10	14	5 19 0
14	1	18	...	...	10	14	7 18 8
14	1	16	...	6	10	...	9 16 0
14	$1\frac{1}{4}$	18	...	6	10	...	9 18 4
14	$1\frac{1}{4}$	16	4	6	10	...	12 5 0
16	1	18	...	...	10	14	9 1 4
16	1	16	...	6	10	...	11 4 0
16	$1\frac{1}{4}$	18	...	6	10	...	11 6 8
16	$1\frac{1}{4}$	17	...	6	10	...	12 13 4
17	1	18	...	...	10	14	9 12 8
17	1	16	...	6	10	...	11 18 0
17	$1\frac{1}{4}$	16	4	6	10	...	14 17 6
18	1	18	...	...	10	14	10 4 0
18	1	16	...	6	10	...	12 12 0
18	$1\frac{1}{4}$	16	4	6	10	...	15 15 0
18	$1\frac{1}{4}$	14	4	6	...	...	20 5 0
18	$1\frac{1}{2}$	17	...	6	10	...	17 2 0
18	$1\frac{1}{2}$	16	4	6	10	...	18 18 0
19	1	16	...	6	10	...	13 6 0
19	$1\frac{1}{2}$	17	...	6	10	...	18 1 0
20	1	16	...	6	10	...	14 0 0
20	$1\frac{1}{4}$	17	...	6	10	...	15 16 8
20	$1\frac{1}{4}$	14	4	6	...	...	22 10 0
20	$1\frac{1}{2}$	17	...	6	10	...	19 0 0
20	$1\frac{1}{2}$	14	4	6	...	...	27 0 0
21	1	16	...	6	10	...	14 14 0
21	$1\frac{1}{2}$	16	4	6	10	...	22 1 0
22	$1\frac{1}{2}$	17	...	6	10	...	20 18 0
24	1	16	...	6	10	...	16 16 0
24	$1\frac{1}{2}$	16	4	6	10	...	25 4 0
24	$1\frac{1}{2}$	14	4	6	...	...	32 8 0
24	2	13	4	6	...	...	52 16 0
26	$1\frac{1}{2}$	16	4	6	10	...	27 6 0
26	2	13	4	6	...	...	57 4 0
28	$1\frac{1}{2}$	16	4	6	10	...	29 8 0
28	2	13	4	6	...	...	61 12 0
30	$1\frac{1}{2}$	16	4	6	10	...	31 10 0
32	$1\frac{1}{2}$	16	4	6	10	...	33 12 0

**“SPEARIOR”  
“YELLOW TIP”**

HEAVY POWER  
BLADES.

HIGH SPEED  
STEEL.

Length	Width	Thick-ness	TEETH PER INCH				List Prices per Gross
In. 12	In. $\frac{3}{4}$	Gauge 18	...	...	10	14	£20 8 0
12	1	18	...	...	10	14	27 4 0
14	$\frac{3}{4}$	18	...	...	10	14	23 16 0
14	1	18	...	...	10	14	31 14 8
14	1	16	...	6	10	...	39 4 0
14	$1\frac{1}{4}$	16	4	6	10	...	49 0 0
16	1	18	...	...	10	14	36 5 4
16	1	16	...	6	10	...	44 16 0
17	1	18	...	...	10	14	38 10 8
17	1	16	...	6	10	...	47 12 0
18	$1\frac{1}{4}$	16	4	6	10	...	63 0 0
18	$1\frac{3}{8}$	16	4	6	10	...	75 12 0
18	$1\frac{1}{4}$	14	4	6	...	...	81 0 0
20	$1\frac{1}{4}$	14	4	6	...	...	90 0 0
21	$1\frac{1}{2}$	16	4	6	10	...	88 4 0
24	$1\frac{1}{2}$	16	4	6	10	...	100 16 0
24	$1\frac{3}{8}$	14	4	6	...	...	129 12 0

The nominal inch lengths, unless made to specification, are the measurements between outside edges of holes.

Special sizes other than those listed can be quoted for and made to order, subject to normal manufacturing delay. When making saws in dimensions other than those listed, the right is reserved to supply all that are made within 20 per cent more or less of the quantity specified.

## HACKSAW FRAMES

326



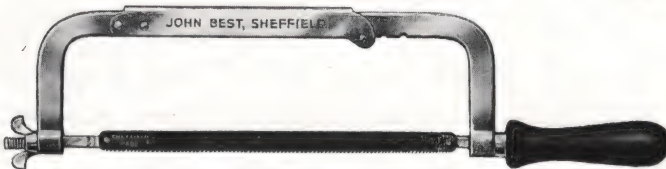
**“JOHN COCKERILL”  
EXTENDING TYPE** for 8in. to 12in. blades. Complete with 9in. Blade. Boxed Singly.  
36/- per dozen.

327



**“JOHN BEST” EXTENDING  
TYPE** for 8in. to 12in. blades. Complete with 9in. blade. Boxed in half dozens.  
28/- per dozen.

329

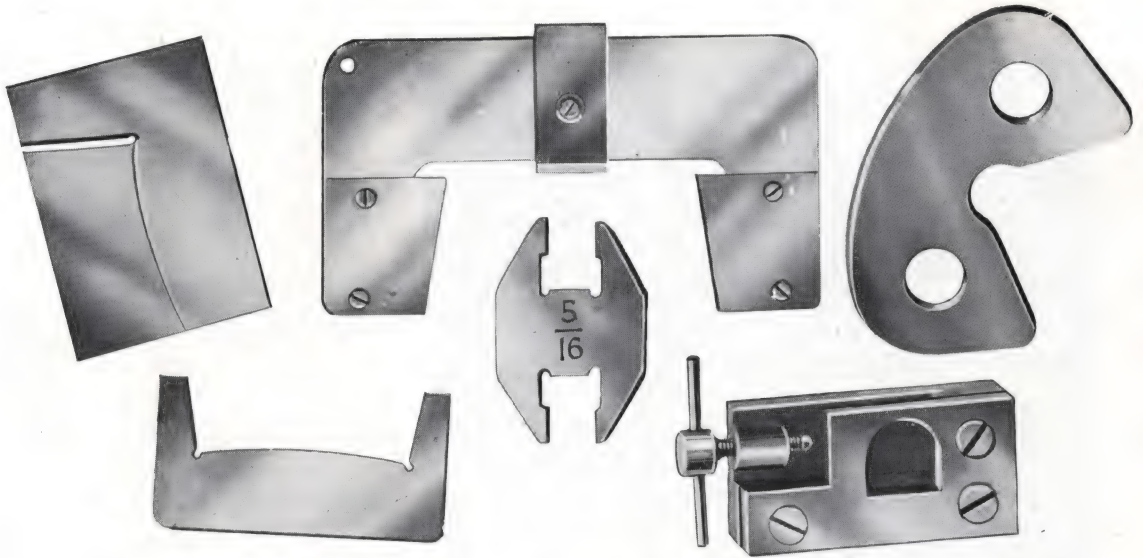


**“JOHN BEST” EXTENDING  
TYPE** for 8in. to 12in. blades. Complete with 9 in. blade: Boxed in half dozens;  
16/- per dozen.

## GROUND FLAT STOCK.

Manufactured from the highest quality Carbon-Chrome annealed Tool Steel. Invaluable in the toolroom and to the toolmaker, wherever a definite thickness of material of dependable quality is required for Test Tools, Fly Tools, Dies, Flat Gauges, Jigs, Templates, Stamps, Cutters, Machine Parts, etc. Accurately ground to within one-thousandth of an inch in thickness ready for immediate use.

We also make Ground Flat Stock in our "NON-SHRINKO" quality which is a non-deformable oil hardening steel, suitable for superior work requiring a high degree of precision. This quality is specially chosen for its freedom from shrinkage, warping and cracking when quenched.



LIST PRICES, EACH, FOR 18" LENGTHS.

Thickness	1/32"	3/64"	1/16"	3/32"	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	
<b>Width</b>													
1/2"	2/6	2/4	2/3	2/7	3/-	3/3	3/6	3/9	4/-	4/6	5/3	6/6	each
3/4"	2/8	2/7	2/6	3/-	3/6	3/8	3/10	4/-	4/3	5/-	5/9	7/-	"
1"	2/10	2/9	2/8	3/4	3/10	4/-	4/3	4/6	4/9	5/8	6/6	8/-	"
1 1/2"	3/6	3/5	3/4	3/10	4/-	4/3	4/6	4/10	5/3	6/2	7/1	8/9	"
2"	4/-	3/9	3/6	4/-	4/3	4/6	4/10	5/3	5/9	6/9	7/9	9/6	"
2 1/2"	4/8	4/3	4/-	4/6	5/-	5/3	5/7	6/-	6/7	7/9	9/2	10/6	"
3"	5/4	4/10	4/6	5/-	5/4	5/9	6/3	6/9	7/4	8/10	10/6	12/-	"
3 1/2"	6/-	5/6	5/-	5/6	6/-	6/6	7/-	7/6	8/-	9/9	12/-	14/6	"
4"	6/9	6/3	5/6	6/-	6/6	7/-	7/9	8/3	8/9	10/6	14/-	17/6	"
4 1/2"	7/9	7/-	6/3	6/9	7/4	7/10	8/8	9/5	10/3	12/6	16/-	20/9	"
5"	8/9	7/9	6/10	7/6	8/2	8/8	9/6	10/6	11/6	14/6	18/-	24/-	"
6"	10/6	9/3	8/3	9/-	9/9	10/6	11/3	12/6	13/6	17/6	23/6	30/-	"

Squares :	1/4" x 1/4"	5/16" x 5/16"	3/8" x 3/8"	1/2" x 1/2"	5/8" x 5/8"	3/4" x 3/4"	1" x 1"
	4/6	5/-	5/6	6/6	8/-	9/6	12/6 each

Intermediate sizes charged as next size larger. The above list covers all usual sizes, but special sizes and thicknesses outside the range given can be supplied at a comparatively small extra charge.

Hardening instructions for both standard Carbon-Chrome quality and the special "Non-Shrinko" quality :-

Heat to 750° Cent. (full cherry red). Quench in oil. Temper to straw colour.

ESTABLISHED 1774

**Spear & Jackson Ltd.**  
AETNA WORKS SHEFFIELD

OVER 160 YEARS AGO



## SEGMENTAL SAWS.



The name of Spear & Jackson is as closely associated with the word "Saw" as is the name "Sheffield" with "Steel," and just as Sheffield continues to lead the world in the production of high class steel, so also do we continue to lead in the design and manufacture of saws. We have been making saws for over 150 years and during that time have gained practical knowledge and experience of sawing conditions in all parts of the world, and of the making of saws to suit those conditions. Our Management and our Saw Makers pass on to you the benefit of this accumulation of experience, which we can justly claim to be unique.

The "Spearseg" Segmental Saw was produced after exhaustive experimental work and research, and systematical development of every detail of plate and segments. We built machines specially suited to the accurate production of the saw in every stage of manufacture, and tested many steels and shapes of tooth under actual and varied working conditions in our customers' own establishments.

We claim with confidence that "Spearseg" is the finest metal-cutting saw for the most modern type of heavy machine with fast feed.

The "Spearseg" Segmental Saw has been tested and retested against every other saw in all types of machines and we continually seek to improve upon the design and cutting efficiency of the steel used for the segments.

Proof of the increasing popularity of "Spearseg" Metal-Cutting Segmental Saws is provided by the fact that our sales have grown enormously during the past twelve months. The reports of saws put into action during this period are good reading—a big point when considered in conjunction with the fact that the "work done" is becoming even more arduous as cutting speeds rise and harder steels are cut.



**SEGMENTAL  
SAWS.**



PRICE LIST FOR STANDARD SIZES.

Diameter in inches	Width of Cut	Number of Segments	Price each of Saw complete	Price each of spare Segments	Diameter in inches	Width of Cut	Number of Segments	Price each of Saw Complete	Price each of spare Segments
11	5	12	£ 5 5 0	5/6	30	17	24	£ 27 6 8	15/6
14	3 1/2	15	13 6 8	11/3	32	17 1/4	24	29 13 4	16/6
15	3 1/4	15	14 0 0	11/3	34	17 1/4	24	32 6 8	17/3
16	3 1/4	18	14 13 4	11/3	36	17 1/4	30	35 6 8	17/6
18	3 1/4	18	15 6 8	11/6	38	17 1/4	30	38 13 4	18/6
20	3 1/4	18	16 0 0	11/9	40	17 1/4	30	42 0 0	19/6
22	3 1/4	18	17 6 8	12/3	42	17 1/4	30	45 6 8	20/-
24	3 1/4	20	19 13 4	12/9	44	17 1/4	30	49 6 8	20/6
26	3 1/4	20	22 0 0	13/6	48	17 1/4	36	55 0 0	21/-
28	3 1/4	24	25 6 8	14/6	54	17 1/4	36	70 0 0	25/-

Special widths of cut can be supplied if required and will be quoted for against specification. If centre flanges or bosses are required, we can supply these at 25/- each net extra, fitted to the saw. (We prefer to fit the flanges ourselves as we can guarantee not to distort the saw). Special rivets for use when fixing new segments 1/- per dozen net.

We supply free with each new saw a handy form of gauge for use in grinding the teeth. This work should be done in accordance with instructions which we provide in the form of a wall chart for hanging near the machine.

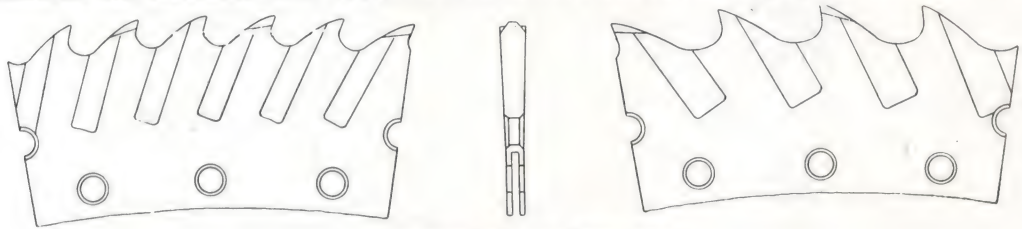


Illustration of Saw Segments.

The saws are so accurate that any segment for a given diameter will fit in any position on any plate of the same diameter. This is of the greatest importance to the mechanic who may have to replace a broken segment or retoothe a whole saw.

The segments are usually interchangeable with those of other best known makes. You may, therefore, send us your saws for resegmenting for which we make no labour charge. If our segments do not interchange (certain makes of foreign saws are often inaccurate) we will supply a new saw for the cost of our segments alone.

"SPEARSEG" Segmental saws are not expensive in first cost and are one of the cheapest propositions in metal cutting saws when their life and performance are allowed for.

The following recommendations (which must be understood as approximate) may be of assistance when ordering:—

PITCH OF TEETH—

For railway work (hard steels, etc.)	...	1 1/2"	to	3/4"
For solid bars (mild steel)	...	1"	to	1 1/4"
For girder work	...	3/8"	to	3/4"
For tubing	...	1/16"	to	1/2"

SPEEDS & FEEDS FOR GENERAL WORK—

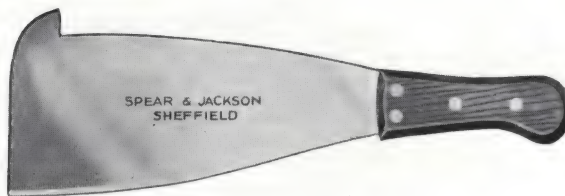
Hard steels :	Periphery speed 26 to 40 feet per minute.
	Feed speed 1/2" to 1 1/2" per minute.
Mild steels (including girders, tubes, etc.) :	Periphery speed 60 to 100 feet per minute.
	Feed speed up to 5" per minute.

When working these Saws there should be at least 3 Teeth actually cutting. The Segments are made from our "TRIPLE MERMAID" Super High Speed Steel and can be supplied with 3, 4, 5, 6 or 8 Teeth per Segment to suit all classes of work to be cut.

## BEST QUALITY CANE KNIVES.

Best Cast Steel. Hardwood Handles. Correct Balance. Smooth Finish.  
Handles made in one piece. All Blades well Sharpened before Despatch.

MERMAID BRAND



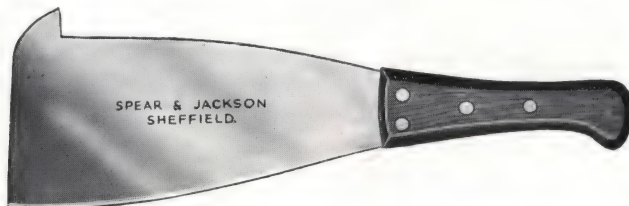
No. 512. Length  $17\frac{1}{2}$ " , bright blade  $11\frac{1}{4}$ "  $\times$  18 Gauge, Handle  $6\frac{1}{4}$ " , Weight, approx.,  $11\frac{1}{2}$  lbs. dozen. ... 27/6 dozen.



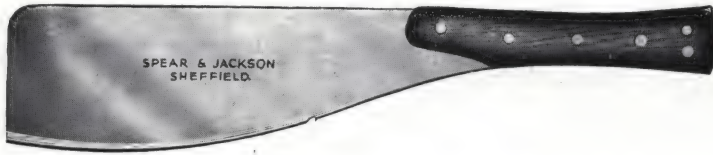
No. 513. Length 20" , bright blade  $11\frac{1}{4}$ "  $\times$  18 Gauge, Handle  $8\frac{3}{4}$ " , Approx. weight, 13 lbs. dozen. ... 27/6 dozen.



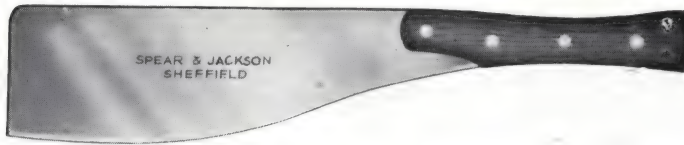
No. 511. Length  $19\frac{1}{2}$ " , bright blade  $11\frac{1}{2}$ "  $\times$  18 Gauge, Handle 8" , Approx. weight,  $12\frac{1}{2}$  lbs. dozen. ... 27/6 dozen.



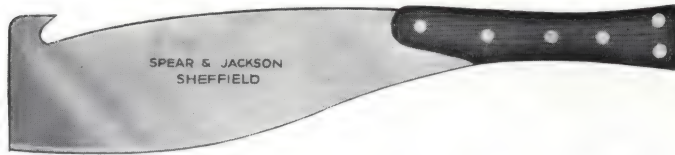
No. 514. Length  $18\frac{1}{4}$ " , bright blade 11"  $\times$  17 Gauge, Handle  $7\frac{1}{4}$ " , Approx. weight,  $13\frac{1}{2}$  lbs. dozen. ... 27/6 dozen.



No. 898. Length 21 $\frac{1}{8}$ ", bright blade 12 $\frac{1}{8}$ " x 18 Gauge, Handle 9", Weight approx. 15 $\frac{1}{2}$  lbs. dozen ... 26/- dozen.  
 No. 304. " 21" " " 12" x 16 " " 9" " " 18 " ... 26/- "



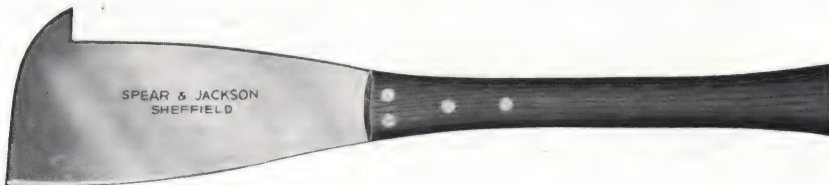
No. 304A. Length 21 $\frac{1}{2}$ ", bright blade 12 $\frac{1}{2}$ " x 18 Gauge, Handle 9", Weight approx. 15 lbs. dozen ... 26/- dozen.



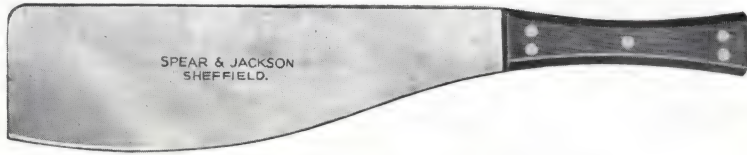
No. 504. Length 21 $\frac{1}{4}$ ", bright blade 12 $\frac{1}{4}$ " x 16 Gauge, Handle 9", Weight approx. 18 lbs. dozen ... 28/- dozen.  
 No. 505. " " Self colour " " " " ... 25/6 "



No. 617. Length 20 $\frac{1}{2}$ ", bright blade 11 $\frac{1}{2}$ " x 19 Gauge, Handle 9", Weight approx. 12 lbs. dozen ... 26/- dozen.



No. 101. Length 26 $\frac{1}{2}$ ", bright blade 11 $\frac{1}{2}$ " x 19 Gauge, Handle 15", Weight approx. 13 lbs. dozen ... 30/6 dozen.



"Cuban" Pattern, overall length 21 $\frac{1}{4}$ ", Handle 7".

No. 516.	Self colour,	14 $\frac{1}{2}$ " × 19	Gauge, average weight	12 lbs. ... ..	17/6 dozen
No. 517.	" "	14 $\frac{1}{2}$ " × 16	" " "	16 $\frac{1}{2}$ lbs. ... ..	22/6 "
No. 515.	Bright blade,	14 $\frac{1}{2}$ " × 19	" " "	12 lbs. ... ..	20/- "
No. 519.	" "	14 $\frac{1}{2}$ " × 16	" " "	16 $\frac{1}{2}$ lbs. ... ..	25/- "



Louisiana and Natal. Overall Length, 21".

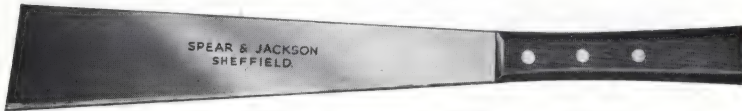
Brass-wire Bound.  
7" Handle, 6 Rivets.

Standard Pattern.  
6 $\frac{1}{2}$ " Handle, 5 Rivets.

Bright Blade, with Hook	... ..	No. 506	... ..	36/6 dozen.	No. 507	... ..	28/- dozen
Bright Blade, without Hook	... ..	No. 508	... ..	36/6 "	No. 509	... ..	28/- "
				Weight, approx. 14 lb. dozen.			Weight, approx. 13 $\frac{1}{2}$ lb. dozen.
				Self colour Blade	... ..		2/6 dozen NET less.



No. 23. Kaffir Corn Knife, bright blade, 14 gauge, three rivets in handle ... .. 15/- dozen



No. 12. Kaffir Corn Knife, bright blade, 16 gauge easy, three rivets in handle ... .. 15/- dozen



Curved Corn Knives, best quality.

No. 502.	Bright blade	14 Gauge, flat ground	... ..	13/6 dozen
No. 503.	Self colour	14 " flat (not ground)	... ..	12/6 "

Prices of other patterns can be quoted against enquiry.

**“Neverblunt” Hatchets & Axes.**



	Nos.	1	2	3	4	5	
Length of Handle ...	...	14	15	16	16	17	inch
Weight of Head, approx. ...	...	24	26	28	30	32	ozs.

**D108** Kent, Waxed Handle ... 42/- 44/- 46/- 50/- 54/- doz.

**D111** Household, Shape as D108. No. 2, 14in. Handle, 1½ lb. Head (not Neverblunt) 30/- doz.  
No. 3, 15in. " 1½ lb. " " " 33/- "



**D132**

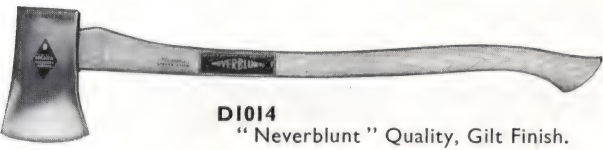
	Weight 2	2½	3	3½	4	4½	5	lbs.
Handles 18	20	22	24	24	26	26	26	inch

**D132** “Kent,” Bright and Blacked, **Handled** 69/3 79/9 88/6 98/9 109/3 125/9 138/9 doz.  
**D133** “ ” Self Colour “ ” 66/- 73/9 85/- 97/- 106/- 123/3 135/3 “ ”  
**D120** “Kent,” Bright and Blacked, **Unhandled** 52/- 62/6 73/- 83/6 93/6 104/- 114/6 “ ”  
**D121** “ ” Self Colour “ ” 48/9 59/- 69/3 79/9 90/3 100/9 111/- “ ”



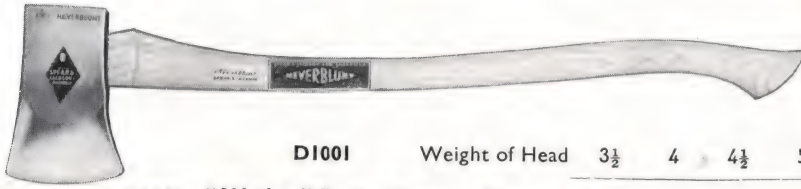
	Nos.	0	1	2	3
Length of Handle	14	16	17	17	inch
Weight of Head	16	24	28	32	oz.

**D116** Hunters. Gilt, Waxed Handle ... 45/- 55/- 57/- 60/- doz.



**“Quarter”** Axe, 2 lb. Head with 24in. Hickory Shaft ... 66/- doz.  
**“Half”** Axe, 2¼ lb. Head, with 26in. Hickory Shaft ... 69/- “ ”  
**“Three-quarter”** Axe, 2¾ lb. Head, with 27” Hickory Shaft... 72/- “ ”

**D1014** “Neverblunt” Quality, Gilt Finish.

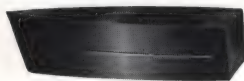


<b>D1001</b>	Weight of Head	3½	4	4½	5	5½	6	6½	7	lbs.
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**D1001** “Wedge” Felling, Handled, “Neverblunt” Brand. Best Cast Steel, Gilt, 36in. Hickory Shafts ... 96/- 102/- 106/- 112/- 115/- 118/- 125/- 132/- doz.  
**D1009** Handles only. 36in. Best Quality, 31/6 dozen, Second Quality, 25/3 dozen.  
**D1002** “Kent” Felling. Bright and Black, **Heads only** ... 117/6 131/9 145/6 159/6 — “ ”  
**D1003** As above Handled with 36in. Extra Quality Handles 152/9 166/6 180/3 194/- — “ ”



**D1002**



**D1007**



**D117A**

Approx. Weight per doz.	24	36	48	60	72	84	lbs.
Length	5	6	7	8	9	10	inch

**D1007** Wood Splitting Wedges. Self Colour, Ground on Points ... 60/- 60/- 60/- 60/- 60/- 60/- cwt.  
**D117A** “Neverblunt” Household Stick Chopper. Bright & Black, through Tang, 7½ × 2½in. Deep 22/- doz.  
**D555** “John Cockerill” “ ” “ ” 7in. on Cut ... 12/9 “ ”

## “Neverfail” Butchers’ Tools.



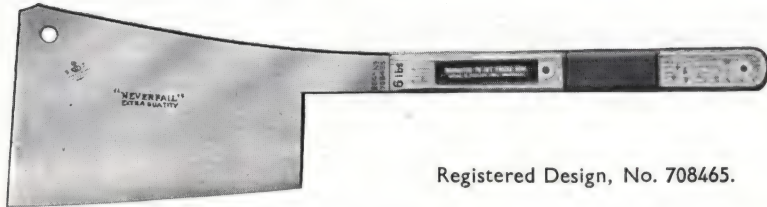
The temper of every “Neverfail” Cleaver and Chopper is tested by a hard blow on an iron bar and the illustration shows the cuts made by “Neverfail” Cleavers in testing, ably demonstrating the severity of the test.



**No cleaver or chopper which fails to withstand it being offered for sale.**

Should you make this test yourself, take care to deliver a perfectly straight blow, and avoid wrenching the blade in the cut, as highly tempered steel such as is used in the manufacture of these tools will NOT stand this strain.

### DI036

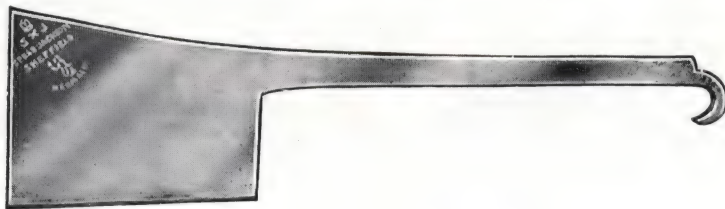


Registered Design, No. 708465.

Extra Quality, Scale Tang, all bright. 6 lb. and up above supplied with **improved solid steel bolster**, which prevents the wooden scales wearing or splitting.

Weight ...	2½	3	3½	4	4½	5	6	7	8	9	10	11	12 lbs.
Width on Cut	7¼	7½	7¾	8	8½	9¼	10	10½	10¾	11	11¼	11½	11¾ inch
	10/-	10/9	12/3	14/-	15/-	16/3	17/9	20/-	22/-	24/3	26/6	29/6	31/6 each

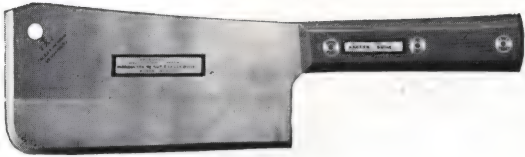
### DI066



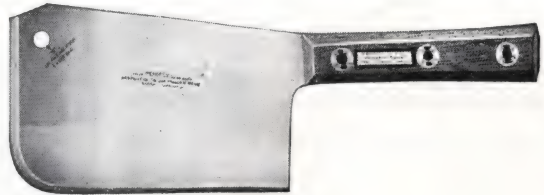
Extra Quality, Solid Handle, All Bright.

Weight ...	...	...	5	6	7	8	9	10	11	12	13	14 lbs.
Width on Cut	...	...	9¼	10	10½	10¾	11	11¼	11½	11¾	12	12¼ inch
	14/3	16/-	19/-	20/9	22/6	25/-	27/-	29/6	33/-	36/6 each		

**“Neverfail” Butchers’ Tools.**



D1039



D1140



D1031



D1038



D1093

		8	9	10	11	12	inch
D1039	Lamb Choppers, Bright, Round Nose, Scale Tang						
D1040	” ” ” Square ” ” ”	81/-	84/-	93/-	99/-	102/-	dozen
D1140	London or Smithfield, 8 in. Scale Tang	—	107/6	114/6	124/9	135/3	”
	Extra for Finger Grip Handles, 2/9 dozen.						
D1031	Ladies’ Lamb Choppers. Specially light, 1lb. 6oz., 8in. Blade, 6in. Handle						89/3 dozen
D1038	Household Choppers. Through Tang, 1lb. 4oz., 6in. x 3½in. Blade, 6½in. Handle						41/9 ”
D1093	” ” ” ” Capped, 11oz. weight, 5½ x 3½in. Blade, 5in. Handle						18/- ”



D1054

		6	7	8	9	10	11	12	inch
D1054	Knives. Warranted Cast Steel, Rosewood Handle	25/3	29/3	34/9	43/3	49/-	56/9	61/6	dozen



D1045

		10	11	12	13	14	inch
D1041	STEELS, stag handle, iron ring and swivel	54/6	57/6	60/-	63/6	66/-	dozen
D1042	” brass joint and swivel	69/9	72/6	76/6	78/9	81/9	”
D1045	” Blackwood, brass guard, iron swivel	41/-	43/6	47/-	49/6	52/6	”

## The "ODD JOB" STANDARD REPAIR OUTFIT

The "ODD-JOB" Household Repair Outfit is planned for the house-holder who, wisely, attends to minor repairs himself.

In every house there are a dozen jobs a week which the average man can put right at once—if he has the necessary tools and materials handy.

This is what the "ODD-JOB" outfit is intended for—it is a small, carefully selected set of well-made tools (not toys) collected together in one handsome carrying case, together with a very complete assortment of nails, screws, washers, and similar small fittings.

The "ODD-JOB" Major Outfit, see next page, contains additional tools, a rather wider selection of sundries, and in addition, the wonderful Spear & Jackson "ODD-JOB" All Purposes handsaw, which will cut wood, wire, bolts, nails, iron, brass, fibre or any soft metal, efficiently combining the functions of several different kinds of saw.



### ASSORTMENT OF TOOLS Etc.

(Standard Outfit)

Hammer, drop-forged, bright head.  
Pliers, combination.  
Turnscrew, large, hardened blade.  
Turnscrew, electrician's, insulated handle.  
Bradawl, Gimlet, Oil-can, Tube of Glue.  
Full assortment of Nails, Screws, Tacks, Hooks & Eyes, Staples, Insulating Tape, Sand and Emery Paper, Tape Measure, Picture Wire, Fuse Wire.

### The "ODD JOB" STANDARD OUTFIT IN A HANDSOME CARRYING CASE COMPLETE WITH

A full assortment of nails, screws, washers, rivets, fuse wire, picture wire, sand and emery paper, etc.



PRICE  
**15/-**  
PER SET.



ESTABLISHED 1774

**Spear & Jackson Ltd.**  
AETNA WORKS SHEFFIELD

OVER 160 YEARS AGO

## The "ODD JOB" MAJOR REPAIR OUTFIT.



### ASSORTMENT OF TOOLS, Etc.

(Major Outfit).

Special "All-Purposes" Handsaw.  
Hammer, drop-forged, Bright Head.  
Pliers, combination.  
Turnscrew, large hardened blade.  
Turnscrew, Electrician's, insulated handle.  
Bradawl, Scraper, File, half-round, Gimlet, Oil-can, Set of Wallplugs, Tube of Glue.  
Full assortment of Nails, Carpet Nails, Screws, Tacks, Hooks & Eyes, Drawing Pins, Staples, Cotter Pins, Washers for Hot and Cold Taps, Bifurcated Rivets, Insulating Tape, Washers (sundry), Picture Wire, Fuse Wire, Sand and Emery Paper, Tape Measure.

PRICE

**25/-**

PER SET.

## CHISELS.



"Bottle Neck" Handle.

### Firmer Chisels. "Mermaid" Brand, Cast Steel.

To	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	inch
D1 Unhandled ...	4/3	4/9	5/6	6/-	6/6	7/6	8/6	10/-	11/-	12/-	13/6	15/-	16/6	20/-	doz.
D3 Bottle Neck } Ash or	6/9	7/3	8/-	8/6	9/-	10/-	11/-	12/9	13/9	15/-	16/6	18/6	20/-	23/6	„
D4 Carving } Beech															
D6 Box. Carving ...	8/6	9/-	9/9	10/3	10/9	12/-	13/-	15/-	16/-	17/-	18/6	20/6	22/-	25/6	„
D7 Box. London Octagon	9/6	10/-	10/9	11/3	11/9	13/-	14/-	16/-	17/-	18/6	20/-	22/-	23/6	27/-	„



"Carving" Handle.

### Firmer Chisels. Bevelled Edge "Mermaid" Brand, Cast Steel.

To	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	inch
D10 Unhandled ...	8/3	8/9	9/6	10/-	10/6	11/6	12/6	16/-	17/-	18/-	19/6	23/-	24/6	28/-	doz.
D12 Bottle Neck } Ash or	10/9	11/3	12/-	12/6	13/-	14/-	15/-	18/9	19/9	21/-	22/6	26/6	28/-	31/6	„
D13 Carving } Beech															
D15 Box. Carving ...	12/6	13/-	13/9	14/3	14/9	16/-	17/-	20/9	21/9	23/-	24/6	28/6	30/-	33/6	„
D16 Box. London Octagon	13/6	14/-	14/9	15/3	15/9	17/-	18/-	21/9	22/9	24/6	26/-	30/-	31/6	35/-	„



### Registered Chisels. "Mermaid" Brand, Cast Steel, Polished Ash Handles and Bright Iron Hoops.

To	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	inch
D17 Handled ...	12/-	12/3	12/6	13/3	14/6	15/9	18/9	19/9	20/9	22/-	23/3	25/3	27/3	30/3	doz.
D18 Unhandled ...	7/-	7/3	7/6	8/3	9/3	10/6	13/6	14/3	15/-	16/3	17/6	19/6	21/6	24/6	„

## GOUGES.



"London Octagon" Handle.

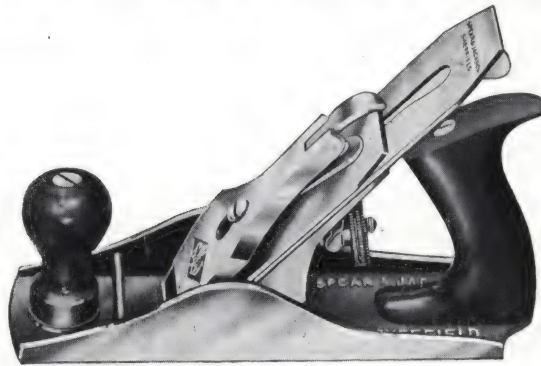
### Firmer Gouges. "Mermaid" Brand, Cast Steel. Unless otherwise specified, Sweep "C" always sent.

To	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	inch
D19 Unhandled ...	5/3	5/9	6/6	7/-	7/9	8/9	9/9	11/6	13/-	14/-	16/-	17/6	19/6	24/-	doz.
D21 Bottle Neck } Ash or	7/9	8/3	9/-	9/6	10/3	11/3	12/3	14/3	15/9	17/-	19/-	21/-	23/-	27/6	„
D22 Carving } Beech															
D24 Box. Carving ...	9/6	10/-	10/9	11/3	12/-	13/3	14/3	16/3	17/9	19/-	21/-	23/-	25/-	29/6	„
D25 Box. London Octagon	10/6	11/-	11/9	12/3	13/-	14/3	15/3	17/3	18/9	20/6	22/6	24/6	26/6	31/-	„

Cannelled inside to 1 inch, 3d.; above, 6d. per dozen extra.

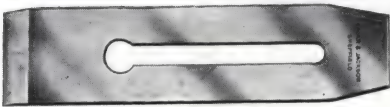
## ADJUSTABLE IRON PLANES

**"MERMAID" BRAND.**  
Extra Thin Iron.  
Made from Tungsten  
Steel. Lever Cap and  
Small Screw Nickel Plated.



End and Side Adjustment,  
of Cutter.  
Rosewood Handle  
and Knob.  
All Parts Interchangeable.

D635 Smooth Planes, made in one size only, 9" x 2" Cutter ... .. 12/- each.

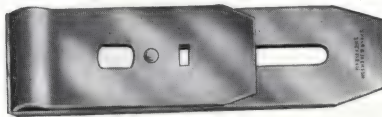


D179A

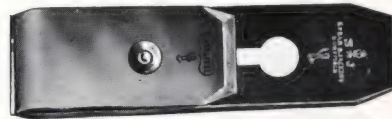
### PLANE IRONS



D179



D636



D180

1 3/4    2    2 1/8    2 1/4    2 3/8    2 1/2    inches

D179A Mermaid Brand, Extra Thin, All Bright, Suitable for Metal Plane (Patt. D635)		1 3/4	2	2 1/8	2 1/4	2 3/8	2 1/2	inches
D636	Double Irons, complete with Screws and Nuts..	20/6	22/-	23/9	25/3	26/9	28/6	dozen
D637	Top Irons ... ..	35/3	38/6	40/-	42/3	45/6	47/6	"
D179	Single Cut, Half Bright, extra Cast Steel Face ...	15/3	15/3	16/3	17/6	18/3	19/3	"
D180	Double Irons, complete with Screws & Nuts ...	8/9	10/-	10/6	12/-	13/3	14/-	"
D181	Top Irons ... ..	16/9	18/6	19/3	21/3	23/3	24/9	"
		6/3	6/9	7/-	7/6	8/3	9/-	"



D367

### SPOKESHAVES



D369



D256



D634

		Length of Cutting Edge	Up to	2 1/2	3	3 1/2	4	inches
D367	Beech, Polished ... ..			19/-	22/-	25/3	28/4	dozen
D368	Box " ... ..			30/-	33/3	39/6	47/3	"
D369	Beech " and Plated ... ..			25/3	28/4	33/3	39/6	"
D256	Beech, round Tang ... ..			15/9	19/-	—	—	"
D634	Metal Type, with 1 3/4" Iron ... ..		14/3	dozen				

## Special Quality A.H.C. Chisels.

No hardening and tempering is required, but the forging must not be done below a yellow heat. These Chisels are made from our **Special High Grade Alloy Self-Hardening Steel**, and it is only necessary to heat for forging to a yellow heat, then forge in the usual manner to cool off in air. Owing to the extreme toughness of A.H.C. Steel, snipping, which is so conspicuous with ordinary Chisels, is almost eliminated and a great saving in time and tools is effected.

We also supply A.H.C. Steel in bar form; prices on application.

**Unequaled for work in the Foundry and Engineering Establishments.**

**D852**



Length ...	4	5	6	7	8	9	9	inch
Size of Steel ...	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	"
Cutting Edge	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	"

Octagon. Ground and Glazed two sides ... .. 12/- 15/- 18/- 22/6 31/6 39/ 48/- dozen

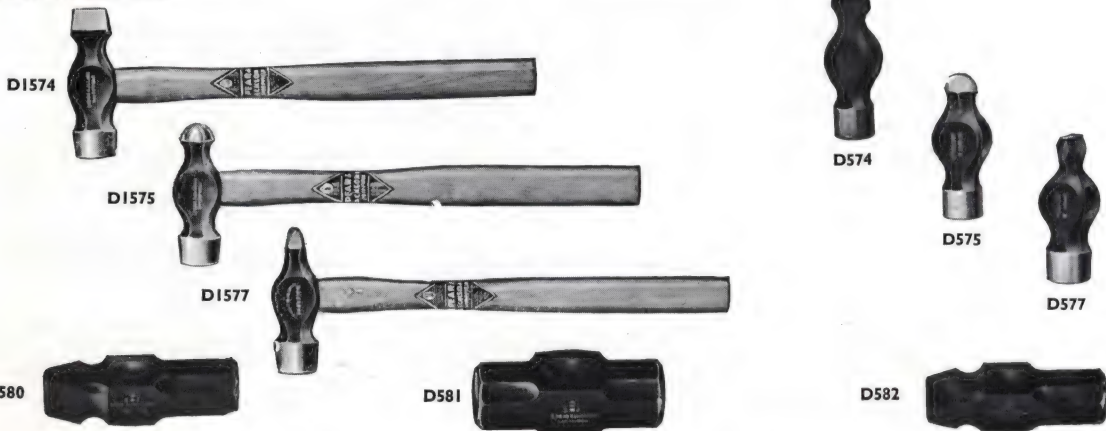
**D853** Cross Cut, Ground and Glazed two sides,  $\frac{1}{4}$ " to  $\frac{3}{8}$ " on Cut as ordered, 8" long  $\times$   $\frac{3}{4}$ " 42/- ; 9" long  $\times$   $\frac{7}{8}$ " 51/- dozen

**D854** Diamond }  
**D855** Half Round } " " " 8" long  $\times$   $\frac{3}{4}$ " 42/- dozen





**HAMMERS**



	Up to	1	1½	1½	1½	2	lbs.
	Length of Handle	14	15	15	16	16	Inch
D1574 Straight Pean, <b>Handled</b>							
D1575 Ball " " " "	18/9	21/6	23/9	26/6	29/3	Dozen	
D1577 Cross " " " "							
D574 Straight Pean, <b>Heads only</b>							
D575 Ball " " " "	11/6 Dozen	11½d.	11½d.	11½d.	11½d.	per lb.	
D577 Cross " " " "							

The above can be supplied All Bright, Up to 1lb. 7/6 Over 1lb. 9/- dozen extra.

		3	3½	4	5	6	lbs. & up
D580 Sledge, Straight Pean .. .. .	93/-	84/-	75/-	69/-	63/-	per Cwt.	
D581 " Double Face .. .. .	87/-	78/-	69/-	63/-	57/-	"	
D582 " Cross Pean .. .. .	93/-	84/-	75/-	69/-	63/-	"	

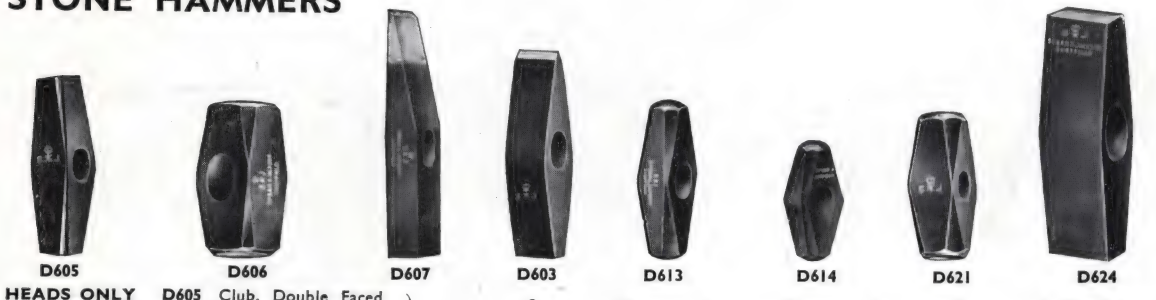
D583 Handles, Best Quality Hickory, 36in. 15/9 Doz.



D585 Post Driving Hammers, Cast Iron Head 36in. Hickory Shafts.

	10lbs.	14lbs.
Heads only .. .. .	4/6	6/- each
Handled .. .. .	7/-	9/- "

**STONE HAMMERS**



	2	2½	3	3½	4	5	6	lbs. & over
<b>HEADS ONLY.</b>								
D605 Club, Double Faced	159/-	135/-	120/-	108/-	99/-	87/-	81/-	per Cwt.
D606 London Club								
D607 Welsh, Walling								
D603 Sharp End								
<b>HANDLED.</b>								
D626 Club, Doubled Faced	39/-	40/6	42/-	45/-	48/-	51/-	54/-	per Doz.
D625 London Club								
D627 Welsh, Walling								
<b>HEADS ONLY.</b>								
D613 Standard Pattern								
D614 Stumpy								
	Under 1 lb.	1 lb.—1½ lb.		Over 1½ lb.				
	14/3 Dozen	1/3		1/3				per lb.
		4	5	6				lbs. & over
D621 Miners' Quartz Drilling Hammers		72/-	66/-	60/-				per Cwt.
D624 Spalling Hammers		78/-	72/-	66/-				"

**HANDLED HAMMERS**



D73



D640



D74



D84



D72



D81



D81a

D73	Adze Eye Claw Hammer, Solid Cast Steel, Bright	...	...	...	...	...	...	...	...	...
D640	Claw Hammer, Special Quality 8oz.	...	...	...	...	...	...	...	...	...
		Nos.	0	1	2	3	4	5	6	
D74	Warrington	...	16/6	18/-	19/6	21/-	24/-	30/-	34/6	dozen
		Weight	12oz.	14oz.	1lb.	1¼lb.	1½lb.	1¾lb.		
D84	Farmers' Solid Cast Steel	...	...	24/-	27/-	31/6	36/-	42/-	57/-	dozen
D72	Pin Hammer, Ball Pean, 4oz. Head	...	...	...	...	...	...	...	21/-	"
D81	" " Cross Pean	...	...	...	...	...	...	...	21/-	"
D81a	Tack Hammer, similar to D81, Special Light Pattern	...	...	...	...	...	...	...	18/-	"



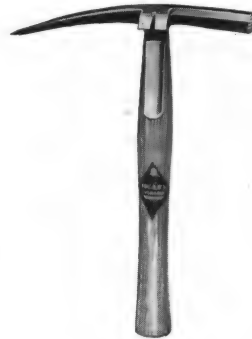
D630



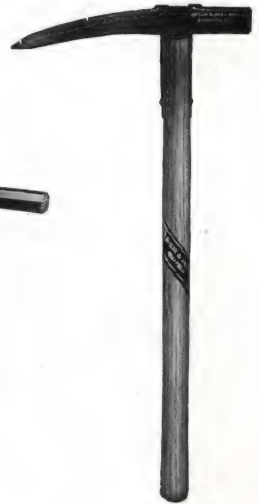
D631



D610



D1102



D90

D630	Brick Hammer, American Pattern, Bright and Red	...	...	...	...	...	...	...	...	48/-	dozen
D610	Bricklayers' Hammer	...	...	...	...	...	...	...	...	51/-	"
D1102	Slaters' Hammer, Strapped and Clawed	...	...	...	...	...	...	...	...	84/-	"
D631	Slaters' Hammer, not Strapped and without Claw	...	...	...	...	...	...	...	...	45/-	"
D90	Coal Hammer, Approx. weight of Head, 1¾lb., Strapped, 18in. Handle	...	...	...	...	...	...	...	...	33/9	"
D628	" " " " " 1¼lb., " 12in. " "	...	...	...	...	...	...	...	...	22/-	"



## TURNSCREWS

D1293

D1293 Swivel Head, Firm Grip Handle 5" blade ... .. 15/9 dozen  
D1294 As above, fitted with rubber cap over ferrule, suitable for Electrician's use ... 15/6 "



D1292

	3	4	5	6	7	8	9	10	12	inch
...	10/6	10/6	10/9	11/9	12/3	13/-	13/6	14/-	15/9	doz

D1292

Spindle, Grooved, Firm Grip Handles.



D1291

		4	5	6	inch
...	...	31/6	31/6	31/6	dozen

D1291

Ratchet, In or Out, can also be used as a Rigid Turn screw. Firm Grip. Black Handles.



	3	4	5	6	7	8	9	10	12	inch.
D346 Leapfrog	11/6	12/6	14/-	16/3	19/3	23/-	25/9	29/3	39/6	doz
D347 Mermaid	13/-	14/-	15/9	18/-	21/3	25/9	27/9	33/9	44/6	"

D346 D347

London Pattern. Flat Beech Handles.



D353 Mermaid	9/-	10/6	12/6	14/3	17/6	21/3	23/3	26/9	34/9	"
D354 "	11/-	13/-	15/9	19/-	21/-	24/3	27/9	33/3	39/6	"

D353 D363 D354

Cabinet Pattern. Improved Oval Handles.

(D353 Beech Handles. D354, Box Handles).

Note. D363 Electricians, Fine Blade, same prices as D353.



D360 Mermaid Brand, 2½in. Blade ... .. 17/- dozen

D360

Motor or Undertaker. Worked Beech Handles.



D1295 D1296

D1295 Mermaid, Cabinet, Turned Oval Beech Handles ... ..	10/-	10/6	13/3	15/3	17/6	20/-	23/9	25/9	28/6	doz
D1296 As above, with Boxwood Handles ... ..	10/9	11/3	14/3	17/6	20/-	23/9	25/3	31/6	34/9	"
D1289 John Cockerill, Beech Handles ... ..	7/3	7/9	8/6	9/6	12/9	15/9	17/6	19/9	24/6	"



D365

Box Opening, Unbreakable. Reg. design, Fast Tang.

		6	9	inch
D365 Mermaid	...	22/-	25/3	dozen



	2½	3	3½	4	5	6	7	8	inch	
D1290	...	6/3	6/3	6/3	6/3	8/6	8/9	10/-	11/-	dozen

D1290

Electricians' Insulated Handles, various colours.



## PLIERS, PINCERS & WING COMPASSES.



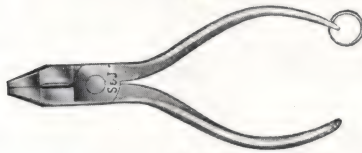
D1301 & D472

- |       |   |      |      |      |       |
|-------|---|------|------|------|-------|
|       |   | 6    | 7    | 8    | inch. |
| D1301 | Combination Pliers, side and joint cutter Turn screw and Rimer End and Burner Hole ... .. | 16/6 | 25/- | 31/- | doz.  |
| D472  | Combination Pliers, celluloid insulated, side and joint cutter Burner Hole ...            | 30/- | 39/9 | —    | „     |



D910

- D910 Scotch Gas Pliers, Joint cutter, Turn screw and Rimer End, 8 in. only ... .. 39/6 doz.



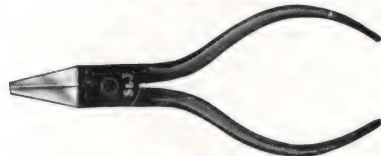
D1303

- D1303 Milliners' Pliers, All Bright, flat nose, 4½ in. only ... 24/- doz.



D1304 & D1305

- D1304 Radio Pliers, Side Cutter, Bright Jaws, 5½ in. only ... 15/6 doz.  
D1305 Radio Pliers, Insulated, Black Handles, Side Cutter, Bright Jaws, 5½ in. only ... .. 25/- „



D466 & D468

- |      |  |      |      |      |      |       |
|------|--|------|------|------|------|-------|
|      |  | 4½   | 5    | 5½   | 6    | inch. |
| D466 | Flat Nose Pliers, Box Joint, Bright Jaws | 28/6 | 28/6 | 33/9 | 42/6 | doz.  |
| D468 | Round „ „ „ „                            | 28/6 | 28/6 | 33/9 | 42/6 | „     |



D1306

- D1306 Wire Netting Nippers, 6 in. only ... .. 24/6 doz.



D459

- |      |                                      |      |      |      |       |
|------|--------------------------------------|------|------|------|-------|
|      |                                      | 6    | 7    | 8    | inch. |
| D459 | Tower Pincers, Ball and Claw End ... | 18/- | 21/- | 27/- | doz.  |

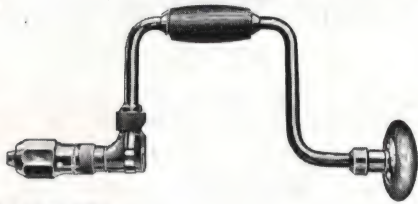


D479

- |      |  |      |      |      |       |
|------|--|------|------|------|-------|
|      |  | 7    | 8    | 9    | inch. |
| D479 | Wing Compasses, Black, Lancashire Pattern ... .. | 54/6 | 61/- | 72/- | doz.  |

**CARPENTERS' BRACES AND BITS**

D268  
D269  
D553



D263  
D264



**WITH RATCHET.**

			Sweep	5	6	7	8	10	12	inch
D268	Hardwood Head and Handle, Nickel-plated	...	...	—	—	13/9	13/9	14/9	15/-	each
D269	" " " Bright Steel	...	...	—	—	—	12/-	13/3	13/6	"
D553	" " " " "	...	...	—	7/9	—	8/-	8/6	—	"

The above Fitted with Ball Bearings.

**WITHOUT RATCHET.**

D263	Hardwood Head and Handle, Bright Steel, Ball Bearings	4/6	—	5/-	5/6	6/9	7/-	..
D264	Beech " " " Plain "	—	—	4/-	4/3	6/3	—	..



D258



	To	1/2	9/16	5/8	3/4	13/16	7/8	1	1 1/8	1 3/16	1 1/2	1 3/8	1 1/2	inch
D332	Scotch Pattern, Bright	19/-	21/-	23/-	25/-	26/6	28/-	31/6	35/6	40/-	40/-	43/-	50/-	dozen
D334	Gedge's Pattern, Bright	22/6	25/-	27/6	30/-	32/-	34/-	37/6	42/6	47/6	47/6	54/-	60/-	"
D335	Jennings' Pattern, Bright	21/-	23/-	26/-	28/-	30/-	31/6	35/-	42/-	46/6	51/6	58/-	65/-	"
D336	Solid Wing Pattern, Bright	27/3	30/-	33/3	36/-	38/6	40/6	45/-	51/-	56/9	56/9	—	—	"
	Single Twist to 3/8 in.													
					1/4	3/8	7/16	1/2	5/8	3/4	7/8			1 inch
D258	Irwin Pattern, Bright...	...	...	...	17/6	17/6	19/6	21/6	25/6	30/-	34/6	38/6	dozen	



D283 D884 D291 D285 D302 D295 D297 D296

" MERMAID " BRAND CAST STEEL SHARPENED.		To	1/2	5/8	3/4	7/8	1	Assorted to 5/8 inch										
D295	Countersink, Flat Head, Black	...	...	...	...	6/-	7/6	10/3	15/-	19/3	7/-	dozen						
D296	" Snail Horn	...	...	...	...	7/-	8/3	12/3	17/9	21/9	7/6	"						
D297	" Rose Head, 8 Cuts, Black	...	...	...	...	7/6	10/6	13/6	19/3	23/-	8/9	"						
		To	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	inch		
D283	Centre, Black	...	...	...	5/6	—	5/6	6/3	6/3	6/9	7/-	7/6	8/3	9/6	11/-	12/3	13/9	dozen
D884	Fast Cutting, Bright	...	...	...	12/-	—	13/-	14/-	14/-	14/6	15/6	16/6	18/6	20/-	22/6	25/6	29/-	"
D285	Shell, Black	...	...	...	6/6	7/-	7/6	9/6	11/-	17/3	19/9	—	—	—	—	—	—	"
D291	Twist Nose or " Swiss " Pattern, Bright.	...	...	...	1/8—1/16	inch,	5/9	dozen.	11—3/16	inch,	7/3	dozen						
D302	Turnscrew, Plain. Black, 5/6																	

**DRILLS AND AUGERS**



**D787**

**D778 & D773**

		Bit Stock Drills for metal or wood. "Mermaid" Brand.										Cast Steel.				
		$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	inch	
<b>D787</b> ... ..	...	7/-	7/6	8/6	10/-	11/-	12/6	14/-	19/-	23/6	28/6	35/6	49/-	65/6	dozen	
<b>JOBBER'S DRILLS</b>	...	$\frac{3}{64}$	$\frac{5}{64}$	$\frac{7}{64}$	$\frac{9}{64}$	$\frac{11}{64}$	$\frac{13}{64}$	$\frac{15}{64}$	$\frac{17}{64}$	$\frac{19}{64}$	$\frac{21}{64}$	$\frac{23}{64}$	$\frac{27}{64}$	$\frac{31}{64}$	inch	
<b>D778</b> Cast Steel ...	...	6/6	6/11	7/4	7/9	8/4	10/5	12/6	14/7	16/8	19/7	22/11	27/1	32/4	dozen	
<b>D773</b> High Speed ...	...	1/1	1/3	1/4	1/6	1/8	1/11	2/3	2/7	3/-	3/6	4/-	4/6	5/-	each	
		$\frac{1}{32}$	$\frac{3}{32}$	$\frac{5}{32}$	$\frac{7}{32}$	$\frac{9}{32}$	$\frac{11}{32}$	$\frac{13}{32}$	$\frac{15}{32}$	$\frac{1}{16}$	$\frac{3}{16}$	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{1}{8}$	$\frac{3}{8}$	inch
<b>D778</b> Cast Steel	...	6/3	7/1	7/11	11/6	15/10	21/1	29/2	41/8	6/8	9/5	18/2	35/5	7/6	dozen	
<b>D773</b> High Speed	...	1/4	1/7	2/-	2/9	3/9	4/9	5/6	1/2	1/9	3/3	5/-	1/5	4/3	each	

**D315**



**D319**



**D321**



Carpenters' Screw, 12in. shank

	To	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	inch
<b>D315</b> Barrel Eye, Bright	...	23/-	25/-	28/6	31/-	35/-	39/6	44/6	51/-	57/-	dozen
<b>D316</b> " " Black	...	20/-	21/6	24/-	27/-	31/-	35/-	39/-	42/6	49/6	"
"Scotch" Round Shanks	...	24/-	27/-	33/-	36/-	40/6	45/-	52/-	55/6	62/6	"
<b>D319</b> Barrel Eye, Bright	...	21/6	24/6	29/6	33/-	37/6	40/-	44/-	53/-	58/-	"
<b>D320</b> " " Black	...	24/6	27/-	31/-	33/6	38/-	43/-	48/-	55/6	61/6	"
"Gedges" Pattern, Round or Square Shanks	...	24/6	27/-	31/-	33/6	38/-	43/-	48/-	55/6	61/6	"
<b>D321</b> Barrel Eye, Bright	...	24/6	27/-	31/-	33/6	38/-	43/-	48/-	55/6	61/6	"

**CASE OPENERS**



**D1324**



**D1326**



**D1327**

<b>D1324</b> Handy Patent Labour Saving Tool, Bright, Extra Strong	...	...	...	...	...	...	...	...	...	42/-	dozen
<b>Specially designed for opening cases and extracting nails easily and quickly.</b>											
<b>D1326</b> 12in. x $\frac{1}{2}$ in. Round Section	...	...	...	...	...	...	...	...	...	20/-	dozen
<b>D1327</b> 15in. x $\frac{3}{8}$ in. Square	...	...	...	...	...	...	...	...	...	28/6	"

**TINMEN'S SNIPS**



**D982**

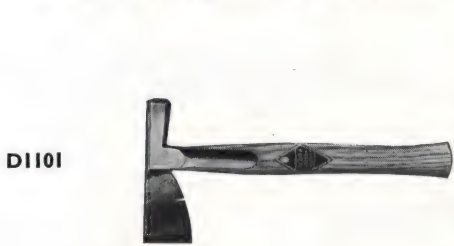


**D983**

		7	8	9	10	12	14	inch
<b>D982</b> Solid Steel, Straight	...	23/9	26/9	31/6	36/3	50/6	71/-	dozen
<b>D983</b> " " Bent	...	34/9	38/-	42/6	50/6	69/6	—	"



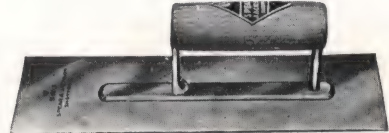
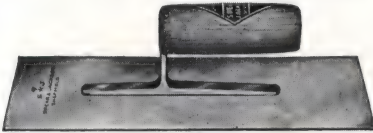
MASONS', BRICKLAYERS', SLATERS' & PLASTERERS' TOOLS



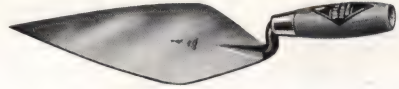
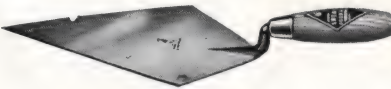
									Nos.	1	2
D1101	Slaters' Lath Hatchet	...	...	...	...	...	...	...	...	63/-	66/- dozen
D1105	Slaters' Ripper, 30in.	...	...	...	...	...	...	...	...	...	63/- "
D629	Mortar Pick, Double Point, Solid Eye	...	...	...	...	...	...	...	...	...	39/- "



										$\frac{1}{2}$ Bright	Bright
D1135	Masons' Line Pins, Standard Pattern	...	...	...	...	...	...	...	...	12/-	15/- dozen pairs
D1139	" " " Anchor Head Pattern	...	...	...	...	...	...	...	...	12/-	15/- "



D1108	Plasterers' Cast Steel, Single Hang, 11in. x 4 $\frac{1}{4}$ in.	...	...	...	...	...	...	...	...	...	75/- dozen
D1109	" " " Double Hang "	...	...	...	...	...	...	...	...	...	94/6 "
D1116	" " " Single Hang "	John Cockerill Brand	...	...	...	...	...	...	...	...	49/6 "



D1118	Best Cast Steel, Masons'	...	...	...	...	...	...	...	...	...	...
D1119	" " " London Brick, capped...	...	...	...	...	...	...	...	...	...	...
D1115	John Cockerill Brick Trowel, one size only 10"	...	...	...	...	...	...	...	...	...	...
D1121	Best Cast Steel, Gauging Pattern	...	...	...	...	...	...	...	...	...	...
D1122	" " " Pointing Pattern	...	...	...	...	...	...	...	...	...	...
D1117	John Cockerill Brand, Pointing Pattern	...	...	...	...	...	...	...	...	...	...

## ROAD TOOLS



D1224



D1234



D1243

Approximate width on Cutting Edge ...

4	4½	5	5½	lbs.
3¾	3¾	4	4¾	inch.

D1223	Short Cutter, Solid Steel, blacked, glazed about 2 in. up. Size of eye 3 × 2 in.	}	39/-	42/-	45/-	48/-	doz.
D1224	Long Cutter, " " " " " " " "						
D1234	Pick " " " " " " " "						
D1243	Road Mattocks " Self Colour " " " " "		6 lbs and up	...	37/6	doz.	



D1176

5	5½	6	6½	7 lbs. up
---	----	---	----	-----------

D1176	Solid Steel, self colour, point and chisel, or double pointed, eye 3 × 2 in. ...	54/9	52/6	51/-	48/-	46/6	cwt.
D1181	Handles, Hickory, 36 in. 21/9 dozen.						



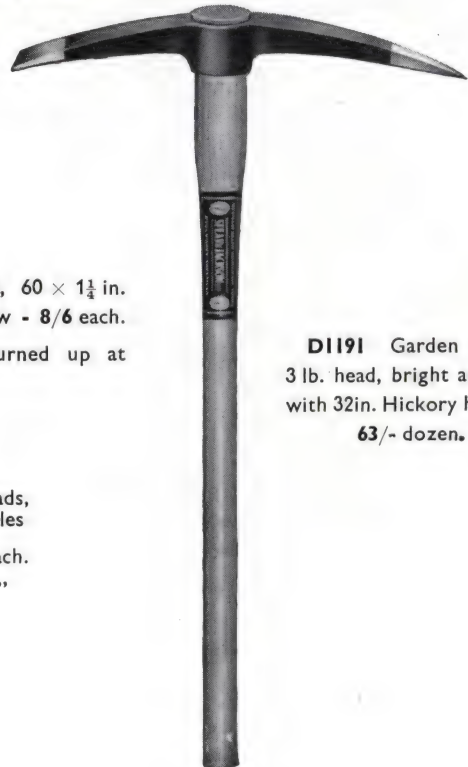
D1161



D642

**D1161** Crow Bars, Solid Steel, 60 × 1¼ in. round, plain or pinch, without claw - 8/6 each. (A "Pinch" Bar is slightly turned up at chisel end).

**D642** Earth Rammers. Round or Square heads, complete with 4 ft. handles  
10 lbs. ... 6/- each.  
14 lbs. ... 8/3 "



**D1191** Garden Picks. 3 lb. head, bright and red, with 32in. Hickory handles. 63/- dozen.

## SHOVELS, SPADES and FORKS.

NOT many years ago a Shovel was just a Shovel and a Spade just a Spade—but to-day there are Shovels and Shovels.

We were the pioneers in introducing Shovels, Spades and Forks built to give long life and efficiency consistent with lightness and comfort in handling.

Our "SPEARIOR" and "NEVERBEND" tools are heat treated and are now made of Alloy Steel, the handles are of selected Northern Ash—the best wood obtainable for the purpose. Weight, balance, strength and finish are all carefully studied.

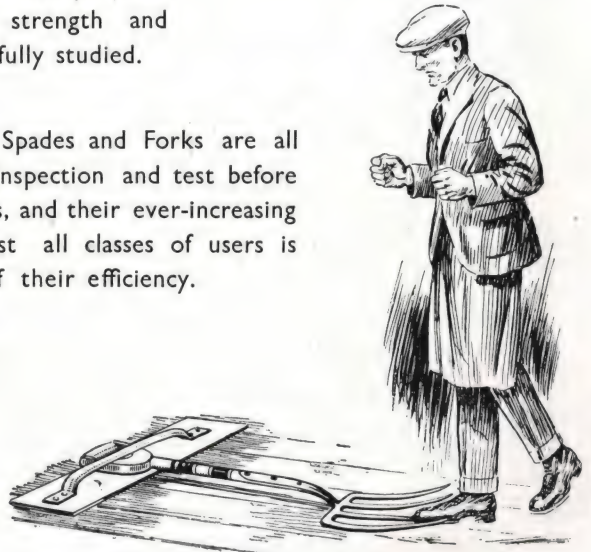
Our Shovels, Spades and Forks are all subject to rigid inspection and test before leaving our Works, and their ever-increasing popularity amongst all classes of users is the best proof of their efficiency.



This Spear & Jackson Mining Shovel was sent us as a pattern for a repeat order. Whilst human hands have worn the grip almost through, the blade, which must obviously have given wonderful service, has plenty of wear left in it.

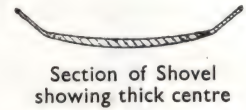
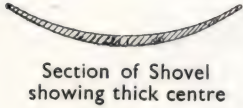


Testing a Spear & Jackson Shovel.  
Spades are tested in the same way.



Testing a Spear & Jackson Fork.

# "SPEARIOR" Heat Treated Alloy Steel Shovels



**Special Thick Centre Open Socket Shovels.**

For Railways, Contractors, etc.

"Spearior" Brand special improved black finish, selected extra quality Ash Handles.

Size Nos.		1	2	3	4	5	6	7	8
Length × Width	Round ...	12 × 10	12½ × 10½	13 × 11	13½ × 11½	14 × 12	14½ × 12½	15 × 13	15½ × 13½ inches
	Square ...	12 × 9½	12½ × 10	13 × 10½	13½ × 11	14 × 11½	14½ × 12	15 × 12½	15½ × 13 "
<b>C760.</b>	Round Mouth LH	} 72/-	} 74/-	} 78/-	} 80/-	} 82/-	} 84/-	} 86/-	} 88/- dozen
<b>C770.</b>	" " DH								
<b>C780.</b>	Square " LH								
<b>C790.</b>	" " DH								

Above prices are for 50 inch Long Handles or 28 inch Double Riveted "D" Handles. Other types of Handles at

<b>C740.</b>	T. Handles, Round Mouth ...	} 10/- dozen less.
<b>C750.</b>	" " Square Mouth ...	
<b>C741.</b>	Split D. Handles, Round Mouth ...	
<b>C751.</b>	" " Square Mouth ...	
<b>C742.</b>	S. & J.'s Patent Metal D., Round Mouth ...	} 6/- "
<b>C752.</b>	" " Square Mouth ...	

**LONG HANDLED SHOVELS.**—The standard case of 12 dozen is usually filled up with 9 to 15 doz. Spare Handles to effect economy in casing and freight charges.—See opp. page.

Extra quality Ash Handles, 50" long, tapered, wax-finished and sheathed in paper 31/- doz.



## AETNA BRAND Open Socket Shovels.

A **Medium Priced Shovel** of same shape as the "Spearior" series shown on opposite page.

Pattern Numbers for Aetna Shovels Hardened and Tempered

Pattern Numbers for Aetna Shovels not Hardened and Tempered

<b>C1760.</b>	Round Mouth.	Long Handle.	<b>C2760.</b>
<b>C1770.</b>	Round Mouth.	Riv. D. Handle.	<b>C2770.</b>
<b>C1780.</b>	Square Mouth.	Long Handle.	<b>C2780.</b>
<b>C1790.</b>	Square Mouth.	Riv. D. Handle.	<b>C2790.</b>
<b>C1740.</b>	Round Mouth.	T. Handle.	<b>C2740.</b>
<b>C1750.</b>	Square Mouth.	T. Handle.	<b>C2750.</b>
<b>C1741.</b>	Round Mouth.	Split "D" Handle.	<b>C2741.</b>
<b>C1751.</b>	Square Mouth.	Split "D" Handle.	<b>C2751.</b>



**C1790.**  
**C2790.**



**C1760.**  
**C2760.**

Length × Width	Size Nos. Round Square	2	3	4	5	6
		12½ × 10½ 12½ × 10	13 × 11 13 × 10½	13½ × 11½ 13½ × 11	14 × 12 14 × 11½	14½ × 12½ ins. 14½ × 12 ..
Hardened and Tempered (C1760, C1770 etc.)	... ..	65/-	66/6	68/-	70/6	73/- doz.
Not Hardened and Tempered... (C2760, C2770 etc.)	... ..	50/-	52/-	55/-	58/-	61/- ..

Above prices cover **Single riveted "D" Long or Split "D" Handles.**  
**T Handles 6/- dozen less.**

### LONG HANDLES for Aetna Shovels.

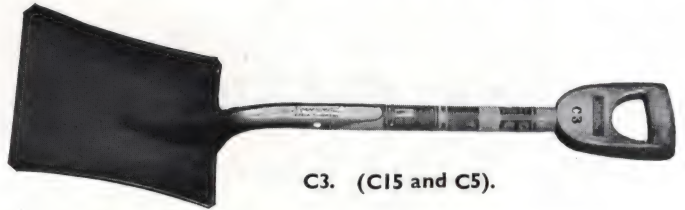
50 inch Plain Handles .. .. 27/6 dozen.

### IMPORTANT.

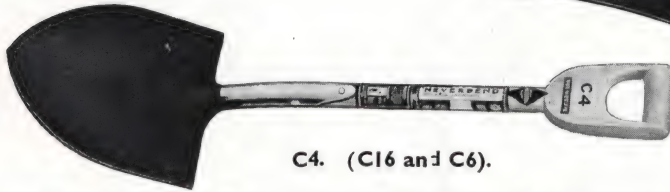
In order to effect economy it is usual to import Long-handled Shovels CASED. This ensures the steamship charging freight on a definite measurement, which is always to the advantage of the Importer. A further economy is effected by the inclusion of extra handles, as mentioned on opposite page. A case of 12 dozen Long-handled shovels measures 79 × 31 × 37 inches, cost approximately 34/6. Such a case will also carry up to 9 to 15 doz. extra Handles—according to size of the Shovels.

Short-handled Shovels may be shipped either in bundles of 1 dozen, canvassed, or packed in tanks, if these can be disposed of to advantage. A 400-Gall. Tank will carry approximately 20 dozen "D" or "T" Handled Shovels, size No. 2 or 3, and measures 48 × 48 × 48 inches.

C3 and C4 are The Original "Neverbend" Heat Treated Shovels. Now made of Alloy Steel.



C3. (C15 and C5).



C4. (C16 and C6).

All "Neverbend" Brand Shovels are tested in our works before despatch.

C3 and C4 S. & J's. Improved Open Socket. "Neverbend" Brand, self colour, Square or Round Mouth, Ash Handles.

C15 and C16 S. & J's. Improved Open Socket. "Leapfrog" Brand, self colour, Square or Round Mouth, Ash Handles.

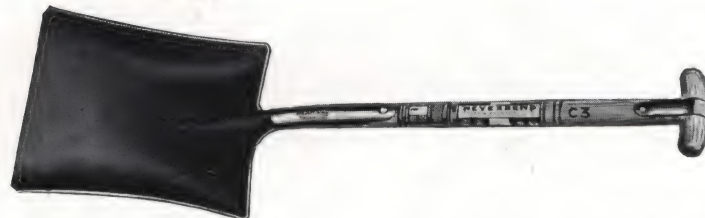
C5 and C6 "John Cockerill" Open Socket: Self colour, 15 gauge plates, Square or Round Mouth, Ash Handles.

		Size Nos.		1	2	3	4	5						
Length	Width	Square Mouth	Round "	12 × 9½	12½ × 10	13 × 10½	13½ × 11	14 × 11½	inch.					
C3.	Square	Mouth	Riv. D. Handle	} 53/-	} 54/-	} 55/-	} 57/-	} 59/-	dozen					
C4.	Round	"	"						"	"	"	"	"	
C15.	Square	"	"						} 49/-	} 50/-	} 51/-	} 52/6	} 54/6	"
C16.	Round	"	"											"
C5.	Square	"	"						} 38/-	} 39/-	} 40/-	} 41/-	} 43/-	"
C6.	Round	"	"	"	"	"	"	"						
		Size Nos.		6	7	8	10							
Length	Width	Square Mouth	Round "	14½ × 12	15 × 12½	15½ × 13	16½ × 14	inch.						
C3.	Square	Mouth	Riv. D. Handle	} 61/-	} 70/-	} 73/-	} 81/-	dozen						
C4.	Round	"	"					"	"	"	"	"		
C15.	Square	"	"					} 56/-	} 58/-	} 60/-	} —	} "		
C16.	Round	"	"										"	"
C5.	Square	"	"					} 45/-	} 49/-	} 52/-	} 60/-	} "		
C6.	Round	"	"	"	"	"	"						"	



Trimming Shovel with Plain T. Handle.

(C4. Round Mouth No. 4).



Firing Shovel with Clasped T. Handle.

(C3. Square Mouth No. 5 or 6.)

C3, C4, C15 and C16 ... T Handles 6/- dozen less and Clasped T 2/- dozen less than Riv. D Handles.

C5 and C6 { T Handles 2/- dozen less than Riveted D handles.  
Extra for 14 gauge plates ... 2/- dozen up to size 6; 3/- dozen for size 7 and up.  
" 13 " " ... 4/- " " " 6; 6/- " " 7 "

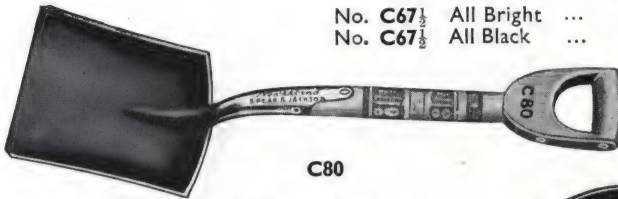
**“NEVERBEND”  
SHOVELS**



C67<sup>1</sup>/<sub>2</sub>

S. & J's "Neverbend" Brand, Round Mouth Mining Shovel, riveted pattern. Flat Blade. Light Pattern, 12in. straps, 26in. Double Riveted "D" Ash Handles.

No.	C67 <sup>1</sup> / <sub>2</sub>	All Bright	...	...	...	Size Nos.		
						Length	Width	inch
						3	4	
						13 × 10 <sup>1</sup> / <sub>2</sub>	13 <sup>1</sup> / <sub>2</sub> × 10 <sup>3</sup> / <sub>4</sub>	
						116/-	118/-	dozen
						90/-	92/-	"



C80

**S. & J's. Improved Open Socket  
Mining Shovel.**

"Neverbend" Brand, extra quality 26in. Double Riveted "D" or 4<sup>1</sup>/<sub>2</sub>ft. Ash Handles, correct bend and lift.



C81

No.	C80.	Square Mouth,	self colour	...	...	...	...	Size Nos.		
								Length	Width	inch
								2	3	
								12 <sup>1</sup> / <sub>2</sub> × 9	13 × 9 <sup>1</sup> / <sub>2</sub>	
								12 <sup>1</sup> / <sub>2</sub> × 9 <sup>1</sup> / <sub>2</sub>	13 × 10	"
								62/-	63/-	dozen

All Bright Blades, 20/- dozen extra. Split "D" Handles, 4/- dozen less.

**“John Cockerill” Open Socket Miners’ Shovels, 28 in. Riv. “D” Handle or 50 in. Long Handle.**

C986.	Square Mouth, self colour	(Style similar to C80)	...	58/-	60/-	dozen
C987.	Round Nose	"	"	"	"	"
	Quarter Bright,	4/-	dozen extra.	All Bright,	12/-	dozen extra.

S. & J's Improved Open Socket. "Neverbend" Brand, narrow blade, self colour, Round Mouth, Double Riveted "D" Ash Handle.



C116

No.	C116.	15G. Plates	...	...	...	Size Nos.		
						Length	Width	inch
						2	3	4
						12 <sup>3</sup> / <sub>4</sub> × 9 <sup>1</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub> × 9 <sup>1</sup> / <sub>2</sub>	13 <sup>3</sup> / <sub>4</sub> × 9 <sup>3</sup> / <sub>4</sub>
						62/-	64/6	67/-
								dozen

54in. Long Handles, same Prices as above. Split "D" Handles 4/- dozen less.



C110

**S. & J's Improved Open Socket,  
special lift, extra quality 28in. Split  
“D” Ash Handles.**

No.	C110.	“Neverbend” Brand,	thick centre blade,	flat back	...	...	Size Nos.		
							Length	Width	inch
							2	3	4
							12 <sup>1</sup> / <sub>2</sub> × 9	13 × 9 <sup>1</sup> / <sub>2</sub>	13 <sup>1</sup> / <sub>2</sub> × 10
							62/-	64/6	67/-
							51/-	52/6	54/-
									dozen

Whilst Pattern C110 being a thick centre shovel is suitable for Mining Purposes, C109 is a parallel blade shovel and is not offered as a Mining Shovel.

Double Riveted "D" Handle or 54 in. Long Handle, 4/- dozen extra. "T" Handle, 8/- doz. less.

## SOLID NECK PATTERNS.

**ALLOY STEEL  
HEAT TREATED  
THICK CENTRE**



C111



C112 and C272

**Solid Neck Strapped Shovels.** S. & J's. "Neverbend" Brand, extra quality Double Riveted "D" Ash Handles.

	Size Nos.	2	3	4	
Square Mouth—Length and Width	...	12½ × 10	13 × 10½	13½ × 11	inch.
Round " " "	...	12½ × 10½	13 × 11	13½ × 11½	"

No. C111. Square Mouth } ... .. 102/- 106/- 110/- dozen  
 No. C112. Round Mouth }

Split "D" Handles, 4/- dozen less. "T" Handles, 12/- dozen less.

**S. & J's. Leapfrog Brand Solid Neck Shovels, 12 in. Straps, 3 Rivets. Double Riveted "D" Handle.**

C941. Square Mouth, (style similar to C111) ... } 90/- 94/- 98/- dozen  
 C942. Round Mouth, ( " " " C112) ... }

"T" Handles 12/- doz. less.

The Solid Neck Pattern is one of the latest developments in Shovel-making and is recommended as the strongest type made, is "comfortable" to use and has been adopted as the standard by the most progressive Railways, Public Works Departments, etc. In "Neverbend" quality these Shovels have thick centre blades reinforced at wearing parts. The smooth back makes this pattern particularly suitable for Contractors' requirements, concrete and macadam work.

### "Neverbend" Brand Railway or Track Patterns.

C279. Square Mouth. } With "Split D" Handle 98/- doz.  
 No. 2, 12 × 10 inch  
 C272. Round Mouth. }  
 No. 2, 12½ × 9½ inch



C279



C283

**C283 "Neverbend" Brand, Solid Neck, Miners' Shovels, 10 inch Straps, 2 Rivets, Round Mouth, 12 × 9½ inch. Thick Centre Blade, Extra Quality Ash Long Handle 50 inch. ... .. 92/- dozen.**

## SOLID SOCKET SHOVELS & SPADES.

Spear & Jackson's Heat Treated Alloy Steel Solid Socket Shovels are being universally adopted by Mining Companies, Public Works, Road and Railway Contractors, etc.

They can safely be ordered as standard stock for all purposes. There is a pattern for every class of work.



C277

C917

C913

C914

C915

C918

Size Nos.

2

3

4

**SHOVELS. S. & J.'s "NEVERBEND" Brand.**

	Square	...	...	...	9 3/4 x 12	10 x 12 1/2	10 1/2 x 13 inches
	Round	...	...	...	9 x 12 1/2	9 1/2 x 13	9 1/2 x 13 1/2 "
C277.	Square Mouth, 27 inch Split "D" Handle	...	...	...	63/-	67/-	70/- dozen
C278.	Round Mouth, 27 inch Split "D" Handle...	...	...	...	68/-	71/6	75/- "
C917.	Round Mouth, 50 inch Long Handle	...	...	...			
C916.	Square Mouth, 50 inch Long Handle	...	...	...			

**SPADES, S. & J.'s "NEVERBEND" Brand, Turned Over Tread.**

C913.	Straight Blade, Split "D" Handle No. 1, 11 1/2 x 6 3/4 in.	63/-	No. 2, 12 x 7 1/4 in.	...	...	67/- doz.
C914.	Hollow, Tapered to Mouth, 12 3/4 x 7 x 6 in. Split "D" Handle	...	...	...	...	67/- "
C915.	Hollow, Wider at Mouth, 12 1/2 x 6 3/4 x 7 in.	...	...	...	...	67/- "

The above Spades can be supplied if desired rounded on cut.

C918.	Scotch Posthole Spade, Solid Socket, Turnover Tread, 16 x 6 x 4 in., or size 14 x 6 1/2 x 5 in. Split "D" Handle	...	...	...	...	77/- doz.
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Riveted "D" Handles and 50 in. Long Handles 4/- dozen extra to Split "D".

Clasped T Handles same price as Split "D" Plain T Handles 4/- dozen less than Split "D".

**All above Tools beautifully finished in dull black, with bright sockets.**

**Solid Strapped Navy and Ballast Shovels.**

S. & J's. "Neverbend" Brand, self colour, three rivets, 26 in. or 28 in. extra quality Double Riveted "D" Ash Handles.



C900, C7 and C9



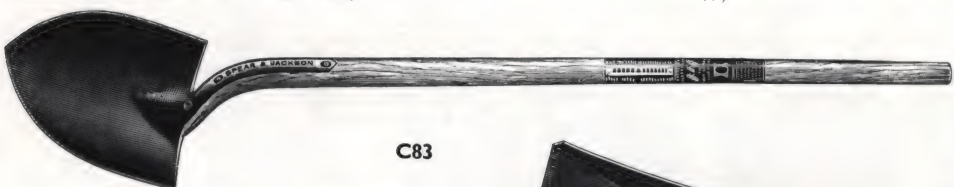
C901, C8 and C10

	Length × Width—	Size Nos.				
		1	2	3	4	5
	Square Mouth	12 × 9½	12½ × 10	13 × 10½	13½ × 11	14 × 11½ inch
	Round Mouth	12 × 10	12½ × 10½	13 × 11	13½ × 11½	14 × 12 "
C900.	Square Mouth, 10 in. Straps	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
C901.	Round " " " " " "	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
C7.	Square " " " " " "	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
C8.	Round " " " " " "	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
C9.	Square " " 12 in. Straps	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
C10.	Round " " " " " "	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
		88/-	92/-	96/-	100/-	104/- dozen
		92/-	96/-	100/-	104/-	108/- "

Note.—London and Navy Patterns, C900/901, have 26 in. Handles. C7/10 have 28 in. Handles. These Shovels are Alloy Steel, Heat Treated, and no longer carry the rivets in the blade, which always had a tendency to clog in clay, etc. "T" Handles, 12/- dozen less. Split "D" Handles, 4/- dozen less. Side Strap Treated 10/- dozen extra

**"John Cockerill" Solid Strapped Shovels, London and Navy Patterns, 28 in. Riveted "D" Handle, 10 in. Straps, 3 rivets.**

		Size Nos.		
		1	2	3
C2902.	Square Nose (style similar to C7)	.. .. .	.. .. .	.. .. .
C2903.	Round " " " " " "	.. .. .	.. .. .	.. .. .
		61/-	65/-	69/- dozen



C83

**Mining Shovels.**



C88

**Solid Strapped, Smooth Back.** S. & J's "Neverbend" Brand, 10 in. Straps, 3 rivets, correct bend and lift, extra quality Ash Handles.

	Length × Width—	Size Nos.			
		2	3	2	3
	Round Mouth	12½ × 9	13 × 9½	12½ × 9½	12½ × 10 inch
	Square Mouth	.. .. .	.. .. .	.. .. .	.. .. .
<b>Round Mouth.</b>					
C83.	Self Colour, 50 in. Long Handle	.. .. .	.. .. .	.. .. .	.. .. .
C84.	26 in. Double Riveted "D" Handle	.. .. .	.. .. .	.. .. .	.. .. .
C85.	Bright, 50 in. Long Handle	.. .. .	.. .. .	.. .. .	.. .. .
C86.	" " 26 in. Double Riveted "D" Handle	.. .. .	.. .. .	.. .. .	.. .. .
		86/-	90/-	—	— dozen
		98/-	102/-	—	—
<b>Square Mouth.</b>					
C87.	Self Colour, 50 in. Long Handle	.. .. .	.. .. .	.. .. .	.. .. .
C88.	26 in. Double Riveted "D" Handle	.. .. .	.. .. .	.. .. .	.. .. .
C89.	Bright, 50 in. Long Handle	.. .. .	.. .. .	.. .. .	.. .. .
C90.	" " 26 in. Double Riveted "D" Handle	.. .. .	.. .. .	.. .. .	.. .. .
		—	—	90/-	94/- "
		—	—	102/-	106/- "

**"John Cockerill." Solid Strapped Miners' Shovels. Self Colour.**

		2	3	2	3
<b>Round Mouth.</b>					
C2283.	50 in. Long Handle (style similar to C83)	.. .. .	.. .. .	.. .. .	.. .. .
C2284.	Single Riveted "D" Handle (style similar to C84)	.. .. .	.. .. .	.. .. .	.. .. .
		68/-	69/-	—	— "
		70/-	71/-	—	— "
<b>Square Mouth.</b>					
C2287.	54 in. Long Handle (style similar to C87)	.. .. .	.. .. .	.. .. .	.. .. .
C2288.	Double Riveted "D" Handle (style similar to C88)	.. .. .	.. .. .	.. .. .	.. .. .
		—	—	72/-	73/- "

## Loco Firing, Charging or Furnace Shovels.



C48

**Solid Socket Loco. Firing Shovels.** S. & J's. "Neverbend" Brand, Solid Neck, not welded, self-colour.

Size Nos. ...	1	2	3	
Length x Width ...	18 x 9	19 x 9½	20 x 10	inch.

No. C48. 22 in. or 28 in. Clasped "T" Handles ... .. 94/- 96/- 98/- dozen.  
Other types of Handles ask for C46 below.



C46

**Open Socket Loco. Firing Shovels.** S. & J's. "Neverbend" Brand, self-colour.

Size Nos. ...	1	2	3	
Length x Width ...	18 x 9	19 x 9½	20 x 10	inch.

No. C46. 22 or 28 in. Clasped "T" Handles ... .. 83/6 85/6 87/- dozen.  
"T" Handles, not clasped, 22 or 28 in., 6/- doz. less. Double Riveted "D" Handles, 22 or 28 in., 6/- doz. extra.



C946

**Cheap Quality Open Socket Loco. Firing Shovels.** "John Cockerill" Brand, self-colour.

Size Nos. ...	1	2	3	
Length x Width ...	18 x 9	19 x 9½	20 x 10	inch.

C946. "John Cockerill" Brand, self-colour, 15Ga. with 22 in. Clasped "T" Handle ... .. 59/6 62/- 64/6 dozen



C104

**Open Socket Stoking Shovel** (for central heating furnaces, etc.). "John Cockerill" Brand, Self-colour.

C104. Made in one size only, 12 x 7 in., with 22 in. "T" Handle ... .. 42/- dozen.

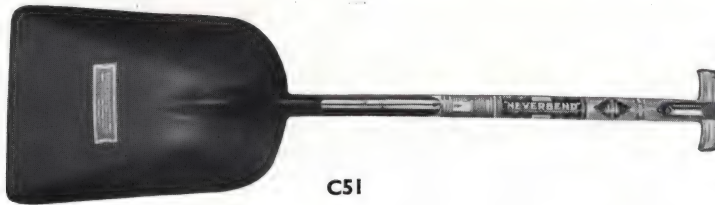
# SCOOPS and FIRING SHOVELS



C50

**Barn or Chaff Shovels.** S. & J's. Improved Open Socket, "Neverbend" Brand, self-colour, 17 B.W. Gauge Plates, extra quality 28 in. handles.

No. C50.	Riveted "D" Handles	"T" Handles, 12/- dozen less.	Split "D" Handles, 4/- doz. less.
	Size Nos. ... .. 1	Size Nos. ... .. 2	
	Length x Width ... .. 14½ x 12	Length x Width ... .. 16 x 13	inch.
			dozen.
			74/-
			86/-



C51

**Mud, Coal or Grain Scoops.** S. & J's. Improved Open Socket, "Neverbend" Brand, self-colour, 15 B.W. Gauge, extra quality 28 in. handles.

No. C51.	Clasped "T" Handles, or 4 ft. Long Handles	Double Riveted "D" Handles, 6/- dozen extra.	Half Bright and Blue, 16/- dozen extra.
	Size Nos. ... .. 1	Size Nos. ... .. 2	Size Nos. ... .. 3
	Length x Width ... .. 17 x 11½	Length x Width ... .. 18 x 12½	Length x Width ... .. 19 x 13
			inch.
			dozen.
			85/6
			87/6
			89/-



C 896

**American Pattern Scoop, Open Socket 8½ in., "Neverbend" Brand, self-colour, with 26 in. Split "D" Handle.**

C896.	"Neverbend" Brand, with Turnover Guard	Size Nos. ... .. 2	Size Nos. ... .. 4	Size Nos. ... .. 6	Size Nos. ... .. 8	Size Nos. ... .. 10
	Length x Width ... ..	Length x Width ... .. 15 x 10¾	Length x Width ... .. 15¾ x 11¼	Length x Width ... .. 17 x 12	Length x Width ... .. 17¾ x 14	Length x Width ... .. 19 x 14
						inch.
						dozen.
						86/-
						89/-
						92/-
						95/-
						98/-



C897

**American Pattern Coal Shovel, Open Socket 8 in., 14 in. x 14 in., 15 B.W. Gauge, with 26 in. Split "D" Handle.**

C897.	S. & J's. "Leapfrog" Brand,	...	...	...	...	...	...	...	...	57/- dozen.
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**C113**

**Pala Derripiadora.** S. & J's. "Neverbend" Brand. Blade  $16\frac{1}{2} \times 13$  inches, 11 Gauge thick.

**C113.** Self-colour Double Riveted "D" Handle ... 94/- dozen.



**C114**

**Pala Calichera.** S. & J's. "Neverbend" Brand. Blade  $13 \times 11$  inches.

**C114.** Self-colour Riveted "D" Handle ... 55/- dozen.



**C117**

**Pit Pan Shovels.**

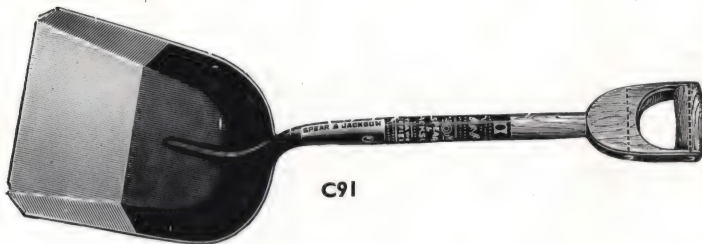
S. & J's. "Neverbend" Brand, 15G. Plates, self-colour.

Length × Width	...	...	...	15 × 15	16 × 16	17 × 17	inch
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<b>C117.</b> Split "D" Handle	...	...	...	86/-	90/-	94/-	doz.
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"T" Handles, 8/- doz. less. Clasped "T" Handles, 2/- doz. less. Double Riveted "D" Handles, 4/- doz. extra.

**C947.** Frypan Shovel, similar to above, 16 in. ×  $14\frac{1}{2}$  in. wide, × 14 B.W. Gauge, Split "D" Handle ... 86/- doz.



**C91**

**C91. Nitrate Shovels.**

S. & J's "Neverbend" Brand  
Blade  $16 \times 12\frac{1}{2}$  in., half bright and blue, Double Riveted "D" handles. 116/- dozen.

**SPADES.**



**Solid Strapped Spades.** Medium Pattern. "Neverbend" Brand, Alloy Steel, Weldless, extra quality, 28 in. Ash Handles. 12 in. Straps, 3 Rivets, Quarter Bright.

Size Nos. ...	0	1	2	3
Length × Width	11 × 6½	11½ × 7	12 × 7½	12½ × 8 inch

No. C130. Double Riveted "D" Handles ... 90/- ... 92/- ... 94/- ... 98/- dozen.  
"T" Handles, 12/- dozen less. Split "D" Handles, 4/- dozen less.



**Solid Strapped Spades.** "John Cockerill" Brand (not Alloy Steel), 12 in. Straps, three Rivets, 28 in. Single Riveted "D" Handles.

Size Nos. ...	0	1	2	3
Length × Width	11 × 6½	11½ × 7	12 × 7½	12½ × 8 inch

No. C2130. Quarter Bright ... 65/- ... 67/- ... 69/- ... 71/- dozen.  
No. C2133. All Bright ... 92/- ... 94/- ... 96/- ... 98/- "  
"T" Handles, 6/- dozen less. Split "D" Handles, 4/- dozen extra.



**Solid Strapped Spades.** Medium Pattern. "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Ash Handles, 12 in. Straps, three Rivets.

Size Nos. ...	0	1	2	3
Length × Width	11 × 6½	11½ × 7	12 × 7½	12½ × 8 inch

No. C132. Half Bright ... 96/- ... 98/- ... 100/- ... 104/- dozen.  
No. C133. All Bright ... 110/- ... 112/- ... 114/- ... 118/- "



**Solid Strapped Spades.** Strong Pattern. "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Ash Handles, 16 in. Straps, four Rivets.

Size Nos. ...	0	1	2	3	4
Length × Width	11 × 6½	11½ × 7	12 × 7½	12½ × 8	13 × 8½ inch

No. C134. Quarter Bright ... 101/- ... 103/- ... 105/- ... 109/- ... 113/- dozen  
No. C135. Half Bright ... 107/- ... 109/- ... 111/- ... 115/- ... 119/- "  
No. C136. All Bright ... 121/- ... 123/- ... 125/- ... 129/- ... 133/- "

Flat Treaded, 5/- dozen extra. Side Strap Treaded, 10/- dozen extra.  
"T" Handles, 12/- dozen less. Split "D" Handles, 4/- dozen less.

**All Bright Spades have specially waxed Handles and extra highly-polished Blades.**

**SPADES.**



**Side Strap Treaded Spades.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Split "D" Handles, 12 in. Straps, three Rivets.

Size Nos. ...	0	1	2	3
Length × Width ...	11 × 6½	11½ × 7	12 × 7½	12½ × 8 inch

No. C151. Quarter Bright ... 96/- ... 99/- ... 104/- ... 109/- dozen  
 Half Bright, 5/- dozen extra. Rounded on cut if desired.  
 Double Riveted "D" Handles, 4/- doz. extra. "T" Handles, 8/- doz. less.



**London Pattern Solid Strapped Spades.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Ash Handles, 12 in. Straps, three Rivets, Flat Treads.

Size Nos. ...	0	1	2	3
Length × Width ...	11 × 6½	11½ × 7	12 × 7½	12½ × 8 inch.

No. C156. Quarter Bright ... 95/- ... 99/- ... 103/- ... 107/- dozen  
 No. C260. All Bright ... 115/- ... 119/- ... 123/- ... 127/- "  
 "T" Handles, 12/- doz. less. Split "D" Handles, 4/- doz. less. 50 in. Long Handles, same price as D.R.D.H.

**"Neverbend" All Bright Spades have specially Waxed Handles and extra highly-polished Blades**



**London Pattern Solid Strapped Spades.** "John Cockerill" Brand (not Alloy Steel), Flat Treads, 12 in. Straps, three Rivets, 28 in. Single Riveted "D" Handles.

Size Nos. ...	0	1	2	3
Length × Width ...	11 × 6½	11½ × 7	12 × 7½	12½ × 8 inch

No. C2155. Quarter Bright ... 68/- ... 70/- ... 74/- ... 78/- dozen  
 No. C2260. All Bright ... 94/- ... 98/- ... 102/- ... 106/- "  
 "T" Handles, 6/- doz. less. Split "D" Handles, 4/- doz. extra. 50 in. Long Handles, same price as "D."



**Solid Strapped Spades.** Extra Strong Pattern. "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Ash Handles, 21 in. Straps, five Rivets, Side Strap Treaded.

Size Nos. ...	1	2	3
Length × Width ...	11½ × 7	12 × 7½	12½ × 8 inch

No. C137. Quarter Bright ... 129/6 ... 133/- ... 137/- dozen  
 Flat Treads, 5/- doz. less. Not Treaded, 10/- doz. less. "T" Handles, 12/- doz. less.

**SPADES.**



**Cape Pattern Solid Strapped Spades.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality Stout, Straight or Bent, Double Riveted "D" Handles. Rounded Cutting Edge or Straight.

Size Nos. ... ..	2	3	4
Length x Width ... ..	12 x 7½	12½ x 8	13 x 8½ inch

No. C220. 6 in. Straps, 2 Rivets, 28 in. Handles **104/-**      **108/-**      **112/-** dozen  
 No. C221. 12 in. Strap, 3 Rivets, 32 in. Handles **117/-**      **119/-**      **121/-** "

Above prices are for flat treads. Side-strap treaded, 5/- doz. extra. Split "D" Handle, 4/- doz. less. "T" Handles, 12/- doz. less. Supplied with Straight Cutting Edge unless definitely specified Rounded, and with Straight handles unless Bent handles definitely specified.



C268



C269

**Farmers' Open Socket Treaded Spades.** "Neverbend" Brand, Alloy Steel, Quarter Bright, Turned-over Treads, 28 in. "D" Ash Handles.

Size Nos. ... ..	1	2
Length x Width ... ..	11½ x 7½	12 x 8 inch

No. C268. Sockets 18 in. long ... .. **64/-**      **66/-** dozen  
 No. C269. Sockets 12 in. long ... .. **58/-**      **60/-** "  
 Split "D" Handle, same price. "I" Handles, 6/- dozen less.



C270

**All Steel Open Socket Spades.** "Neverbend" Brand, Alloy Steel, Half Bright, Turned-over Treads, Metal "D" Handles.

No. C270. Socket right up to Hilt, Blade 11½ x 7½ in. ... .. **81/-** dozen

## SPADES.



**Solid Socket Strapped Spades** with short rib. "Neverbend" Brand, Alloy Steel, Weldless, extra quality, 28 in. Double Riveted "D" Ash Handles, 16 in. Straps, 3 Rivets.

Size Nos. ...	0	1	2	3
Length × Width	11 × 6½	11½ × 7	11¾ × 7¼	12¾ × 8 inch

No. C146. Half Bright, not treaded	114/-	114/-	116/-	120/- dozen
No. C147. All Bright " "	128/-	128/-	130/-	134/- "

Solid Treads, 6/- doz. extra. Quarter Bright, 5/- doz. less than Half Bright. Long Handles at same prices.



**Improved Solid Lip Socket Spades.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality, 28 in. Double Riveted "D" Ash Handles, 14 in. Socket, 2 Rivets.

Size Nos. ...	0	1	2	3	4
Length × Width	11 × 6½	11½ × 7	12 × 7½	12½ × 8	13 × 8½ inch

No. C140. Quarter Bright	125/-	128/-	133/-	138/-	143/- dozen
No. C141. Half Bright	131/-	134/-	139/-	144/-	148/- "
No. C142. All Bright	145/-	148/-	153/-	158/-	163/- "

"Neverbend" Spades have waxed handles, the All Bright finish having extra highly-polished Blades.



**Improved Solid Lip Socket Spades.** "John Cockerill" Brand (not Alloy Steel), 14 in. Socket, 2 Rivets, 28 in. Single Riveted "D" Handles.

Size Nos. ...	0	1	2	3
Length × Width	11 × 6½	11½ × 7	12 × 7½	12½ × 8 inch

No. C2162. Half Bright	88/-	90/-	92/-	94/- dozen
No. C2163. All Bright	108/-	110/-	112/-	114/- "

Solid Treads, 6/- doz. extra. Split "D" Handles, 4/- doz. extra. Quarter Bright, 5/- doz. less than Half Bright. "T" Handles, 8/- doz. less.



**Dunedin Solid Strapped Spades.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Ash Handles, 16 in. Straps, 4 Rivets. Flat Treads.

Size Nos. ...	1	2	3
Length × Width at top and bottom	11½ × 7¼ × 7	12 × 7¾ × 7½	12½ × 8¼ × 8 inch

No. C223. Half Bright	112/-	114/-	116/- dozen
Split "D" Handles, 4/- doz. less.	"T" Handles, 12/- doz. less.		

**SPADES.**

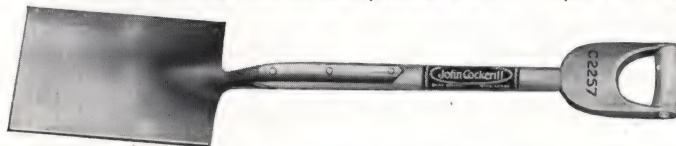


**Solid Neck Spades** with front rib. "Neverbend" Brand, Alloy Steel, Weldless, extra quality, 28 in. Double Riveted "D" Ash Handles, 12 in. Straps, 3 Rivets. Rounded Cutting Edge or Straight, (Supplied with straight cutting edge as illustrated unless round specified).

	Size Nos. ... ..	0	1	2	3	4
	Length x Width	11 x 6½	11½ x 7	12 x 7½	12½ x 8	13 x 8½ inch
No. C143.	Quarter Bright	100/-	102/-	104/-	108/-	112/- dozen
No. C144.	Half Bright	103/-	105/-	107/-	111/-	115/- "
No. C145.	All Bright	120/-	122/-	124/-	128/-	132/- "

Supplied with Straight Cutting Edge unless definitely specified Rounded.

"Neverbend" Spades have Specially Waxed Handles, and the All Bright have Extra Highly Polished Blades. Solid Treads, 6/- doz. extra. 50 in. Long Handles same price as D.R.D. Split "D" Handles, 4/- doz. less.



**Solid Neck Spades.** "John Cockerill" Brand (not Alloy Steel), 12 in. Straps, 3 Rivets, 28 in. Single Riveted "D" Handles.

	Size Nos. ... ..	0	1	2	3	4
	Length x Width	11 x 6½	11½ x 7	12 x 7½	12½ x 8	13 x 8½ inch
No. C2256.	Half Bright	86/-	88/-	90/-	92/-	96/- dozen
No. C2257.	All Bright	100/-	102/-	104/-	106/-	110/- "

Quarter Bright 6/- dozen less than Half Bright.

Solid Treads, 6/- doz. extra. Split "D" Handles, 4/- doz. extra. Long Handles same price as D.H.



**Dominion Solid Neck Spades.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Ash Handles, 12 in. Straps, 3 Rivets, Straight edge, rounded corners, not treads. Ground to a sharp edge on front and sides.

	Size Nos. ... ..	0	1	2	3
	Length x Width	11 x 6½	11½ x 7	12 x 7½	12½ x 8 inch
No. C910.	Quarter Bright	104/-	106/-	108/-	112/- dozen
No. C911.	Half Bright	110/-	112/-	114/-	118/- "
No. C912.	All Bright	124/-	126/-	128/-	132/- "

"Neverbend" All Bright Spades have Specially Waxed Handles and extra highly polished Blades



**Auckland Gum Spades, Solid Strapped.** "Neverbend" Brand, Alloy Steel, Weldless, 28 in. extra quality Double Riveted "D" Handles, 16 in. Straps, 4 Rivets. Ribbed Backs, Side Strap Treaded.

	Size Nos. ... ..	00	0	1	2
	Length x Width at top & bottom	10¾ x 6½ x 6¾	11 x 6¾ x 7	11½ x 7 x 7½	11½ x 7½ x 7½ inch
No. C222.	Half Bright	116/-	116/-	118/-	120/- dozen

Split "D" Handles, 4/- doz. less.

## SPADES.



**Solid Strapped Clay Spades.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality Ash Double Riveted "D" 28 in. Handles, Parallel Blade.

	Size Nos.	...	...	00	0	1	2	3	
	Length × Width	...	...	11½ × 5¼	12 × 5½	12½ × 6	13 × 6½	13 × 7	inch
<b>C194.</b>	Light Pattern (10" straps, 2 rivets)	Quarter Bright		97/6	97/6	97/6	99/6	101/6	doz.
<b>C195.</b>	Strong " (14" " 3 " )	Quarter Bright		104/-	104/-	104/-	106/-	108/-	"
<b>C196.</b>	" " (14" " 3 " )	Half Bright	...	110/-	110/-	110/-	112/-	114/-	"
<b>C197.</b>	Extra Strong (21" " 5 " )	Quarter Bright		120/-	120/-	120/-	122/-	124/-	"
<b>C225.</b>	" " (21" " 5 " )	Half Bright	...	126/-	126/-	126/-	128/-	130/-	"

Flat Treads, 5/- doz. extra. Split "D" Handles, 4/- doz. less.

Parallel Blade will be supplied, as indicated above, unless either "taper blade" or with "wide mouth" is definitely specified.



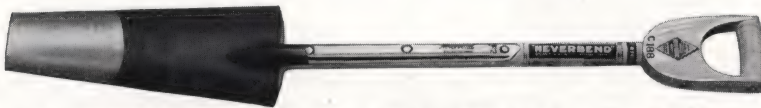
**Solid Socket Clay Spades.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Ash Handles, 12 in. Socket. Parallel Blade.

	Size Nos.	00	0	1	2	3	
<b>C206.</b>	Strong Pattern, Quarter Bright	112/-	112/-	114/-	116/-	118/-	dozen

Flat Treads, 5/- dozen extra. Split "D" Handles, 4/- dozen less.

Clay Spades of both above types can be supplied, either with taper blades or with wide mouth, as required, without extra charge.

	00	0	1	2	3	
Tapered : (Length × Width at top × cutting edge)	11½ × 5½ × 5	12 × 5¾ × 5¼	12½ × 6¼ × 5¾	13 × 6¾ × 6¼	13½ × 7¼ × 6¾	inch
Wide Mouth " " "	11½ × 5 × 5½	12 × 5¼ × 5¼	12½ × 5¾ × 6¼	13 × 6¼ × 6¾	13½ × 6¾ × 7¼	inch



**Solid Strapped Draining Spades.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Handles, 14 in. Straps, 3 Rivets, Tapered Blade.

	Size Nos.	...	...	1	2	3	4	
	Length × Width at top and bottom	...	...	15 × 5¼ × 3¼	16 × 5½ × 3½	17 × 5¾ × 3¾	18 × 6 × 4	inch
<b>No. C188.</b>	Half Bright	...	...	114/-	116/-	118/-	120/-	dozen



**Solid Socket Draining Spades.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Ash Handles, 18 in. long Socket, Rivets, Tapered Blade.

	Size Nos.	...	...	2	3	
	Length × Width at top & bottom...	...	...	16 × 5½ × 3½	18 × 6 × 3½	inch
<b>No. C190.</b>	Quarter Bright	...	...	138/-	148/-	dozen
<b>No. C191.</b>	Half Bright	...	...	144/-	154/-	"

Split "D" Handles, 4/- doz. less. Clasped "T" Handles, 4/- doz. less.

## SPADES



**Solid Strapped Post Hole Spades.** "Neverbend" Brand, Alloy Steel, Weldless, 50 in. long, extra quality Ash Handles, 12 in. Straps, 3 Rivets. Cofered Blade, 12½ by 8 in.

No. C249.	Black Finish, as illustrated	...	...	...	...	...	96/-	dozen
No. C251.	Ground Bright ...	...	...	...	...	...	128/-	"
No. C251A	Bright, Extra high polish*	...	...	...	...	...	140/-	"

\*"Neverbend" All Bright Spades have specially Waxed Handles & extra highly-polished Blades.



**Solid Strapped Post Hole Spades.** "Neverbend" Brand, Alloy Steel, Weldless, 50 in. long, extra quality Ash Handles, 10 in. Straps, 3 Rivets. Cofered Blade, 10 by 7¼ in.

No. C938.	Black Finish	...	92/-	dozen	No. C939.	Ground Bright	...	124/-	dozen
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**Riveted Pattern or Irrigation Spades.** "Neverbend" Brand, Alloy Steel, extra quality 50 in. long Ash Handles. Blade 10 by 7¼ in.

No. C267.	Black Finish	...	84/-	dozen	No. C252.	Ground Bright	...	94/-	dozen
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**Cox's Pattern Solid Socket Strapped Grafting Spades.** "Neverbend" Brand, Alloy Steel Weldless, 16 in. Straps, 4 Rivets, extra quality Double Riveted "D" Ash Handles.

Size Nos.	...	...	...	...	1	2
Length at top and bottom	...	...	...	...	12½ × 6½ × 6	13 × 7 × 6½ inch
No. C224.	Half Bright	...	...	...	113/-	115/- dozen



**Solid Neck Post Hole Spades,** "Neverbend" Brand, Weldless, Long Straps, 3 rivets, tapered blade, solid treaded, bright points.

Size Nos.	...	...	1	2	3			
Length × Top × Mouth	...	...	12 × 7 × 7½	12½ × 7½ × 8	13 × 8 × 8½ inch.			
C945.	Double Riveted "D" Handle	...	...	...	120/-	121/-	122/-	dozen

Attention is drawn to Solid Socket Patterns on page 115.



**SPADES.**



**Open Socket Treaded Spade.** Rolled Sheet Steel, Quarter bright front, self colour back, best 28 in. Riveted "D" or 3¼ ft. Long Ash Handles.

		Size Nos. ... ..	00	0	1	2	3		
		Length × Width	10½ × 6	11 × 6½	11½ × 7	12 × 7½	12½ × 8	inch	
S. & J.'s "Leapfrog" Brand	No. C1520. Turned-over Tread...		52/-	52/-	54/-	56/-	58/-	dozen	
	No. C152. Not Treaded ...		50/-	50/-	52/-	54/-	56/-	"	
Split "D" Handles, 4/- doz. less.			"T" Handles, 12/- doz. less.						
"John Cockerill" Brand,	No. C2520. Turned-over Tread...		39/-	39/-	39/-	40/-	42/-	dozen	
	No. C2152. Not Treaded ...		38/-	38/-	38/-	39/-	41/-	"	
	Split "D" Handles, 4/- doz. extra.		"T" Handles, 2/- doz. less.						

**LADIES' AND GENT'S GARDEN SPADES.**



**Solid Neck Pattern.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Ash Handles, 8 in. Straps, 2 Rivets.

		Size Nos. ... ..	1	2	
		Length × Width	9 × 5½	9½ × 6	inch
No. C226. Half Bright and Red	...	...	96/-		dozen.
	Split "D" Handles, 4/- doz. less.	"T" Handles, 12/- doz. less.	Long Handle as above.		



**Improved Solid Lip Socket Pattern.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Ash Handles, 9 in. Socket, 2 Rivets.

		Size Nos. ... ..	1	2	
		Length × Width	9 × 5½	9½ × 6	inch
No. C258. Half Bright and Red	...	...	111/6		dozen.
No. C259. All Bright	...	...	130/6		"
"Neverbend" All Bright have blades extra highly polished. All "Neverbend" Spades have specially waxed Handles.					
No. C246. "Leapfrog" quality, Bright Front, 9" × 5½", T.H.,	60/- doz.	S.R.D.H.,	78/- doz.	Split "D"	84/- doz.



**Solid Strapped Pattern.** "Neverbend" Brand, Alloy Steel, Weldless, extra quality 28 in. Double Riveted "D" Ash Handles, 8 in. Straps, 2 Rivets.

		Size Nos. ... ..	28" D.R.D. Handles.	
		Length × Width	No. 1	No. 2
No. C227. Bright and Red, polished Handles, Untreaded	...	...	9 × 5½	9½ × 6
No. C231. Quarter Bright, Handles unpolished	...	...	80/-	74/-
No. C2271. As C227, Treaded	...	...	86/-	80/-
No. C2312. As C231	...	...	80/-	74/-
"John Cockerill" Brand (not Alloy Steel)				
No. C2227. Half Bright Front, Self Colour Back	...	...	28 inch S.R.D. Handle	
			No. 1	No. 2
			66/- dozen.	

**FORKS**



**Light Pattern Digging Forks** (Size No. 2, for Ladies and Gents.), Square Pronged. Solid Strapped, 12 inch Straps, 3 Rivets, Extra Quality 30 inch Ash Handles. "Neverbend" Brand (Handles specially waxed). (For Size No. 3 see Page 129, C298 etc.)

	No. of Prongs Length and Width	"T" Handles		Double Riv. "D" Handles	
		4 12½ × 7½	5 12½ × 8½	4 12½ × 7½	5 12½ × 8½ inch.
<b>C298/2</b> Black Finish ... ..		70/-	86/-	82/-	98/- dozen
<b>C375/2</b> Half Bright and Red ... ..		78/-	94/-	90/-	106/- "
<b>C376/2</b> All Bright and Red, highly polished prongs ... Split D Handles, 4/- dozen less than D.R.D.H.		94/-	110/-	106/-	122/- "

"Leapfrog" Quality, 29 inch Ash Handles.

		Single Riv. "D" Handles	
		4	5
<b>C300/2</b> Self Colour ... ..		60/-	76/-
		72/-	88/- dozen



**C384** Size 2

**Border Forks**, Solid Strapped, 4 pronged, Extra Quality Ash Handles. "Neverbend" Brand (Handles specially waxed).

	Size Nos. Length and Width	"T" Handles			Double Riv. "D" Handles		
		1 7 × 4½	2 9 × 5½	3 11 × 7	1 7 × 4½	2 9 × 5½	3 11 × 7 inch.
<b>C307</b> Black finish, Square Prongs ... ..		65/-	66/-	72/-	77/-	78/-	84/- dozen
<b>C384</b> Half Bright and Red, Square Prongs ... ..		71/-	72/-	78/-	83/-	84/-	90/- "
<b>C308</b> Half Bright and Red, Oval Prongs ... ..		75/-	76/-	82/-	87/-	88/-	94/- "

"Leapfrog" Quality

		Single Riv. "D" Handles.		
		4	5	6
<b>C387</b> Self Colour, Square Prongs ... ..		59/-	60/-	66/-
		Split "D" Handles 4/- dozen, less than "D" Handle		



**C2307.** Size 3.

"John Cockerill" Quality. 4 pronged, Ash handles,

	Size Nos.	"T" Handles.		S.R.D. Handles.	
		2	3	2	3
<b>C2307</b> Self Colour, Square Prongs ... ..		53/-	54/-	57/-	58/- dozen
<b>C2384</b> Half Bright and Red, Square Prongs ... ..		59/-	60/-	63/-	64/- "
<b>C2308</b> " " Oval Prongs ... ..		63/-	64/-	67/-	68/- "
		Long Handle same price as "D" Handle. Split "D" Handle 4/- dozen extra.			

**Youths' Digging Forks**, Size No. 3. of the above range of "Border" Forks has been increased in weight and strength so that No. 3 size (11" × 7") is now the equivalent of the Youth's or Boy's Digging Fork formerly offered under Pattern Nos. C. 2388 and C. 2389.



**Flat Pronged Border Forks**, Solid Strapped, Extra Quality Ash Handles. "Neverbend" Brand (Handles specially waxed).

		"T" Handles	Dbl. Riv. "D" Handle
<b>C417</b> Black finish, 4 Prongs, 9in. × 6in. ... ..		80/-	92/- dozen
<b>C417a</b> Half Bright and Red " " ... ..		90/-	102/- "

## FORKS



**Solid Strapped Digging Forks, "Neverbend" Brand, Square Pronged, 12 inch Straps, 3 Rivets.**  
30 in. Extra Quality Double Riveted "D" Ash Handles, Waxed. Size No. 3.  
(For Size No. 2 see Page 128 C298/2 etc.)

		No. of Prongs	4 Prongs	5 Prongs
		Length x Width	13 x 8	13 x 9 inch
C298	Black Finish	...	84/-	100/- dozen
C375	Half Bright and Red	...	92/-	108/- "
C376	All Bright and Red, Highly Polished Prongs	...	108/-	124/- "
Split "D" Handles ...		4/- dozen less.	"T" Handles ... 12/- dozen less.	

S. & J.'s "Leapfrog" Brand, with Single Riveted "D" Handle.

		4 Prongs	5 Prongs
		13 x 8	13 x 9 inch
C300	Self Colour	74/-	90/- dozen
C413	Half Bright and Red	82/-	98/- "
Split "D" Handles, 4/- dozen less.		"T" Handles ... 12/- dozen less.	

"John Cockerill's Etna" Brand, Cheap Quality, 10 inch Straps, 2 Rivets.

C2300	Self Colour, Single Riveted "D" Handle	59/-	73/- dozen
Split "D" Handles ...		4/- dozen extra.	"T" Handles ... 4/- doz. less.



**Solid Strapped Digging Forks, "Neverbend" Brand, Half Oval and Half Square Prongs, 12" Straps, 3 Rivets.** 30 in. Extra Quality Double Riveted "D" Ash Handles, Waxed. Size No. 3.

		No. of Prongs	4 Prongs	5 Prongs
		Length x Width	13 x 8	13 x 9 inch.
C299	Black Finish	...	102/-	118/- dozen.
C378	Half Bright and Red	...	116/-	140/- "
C379	Full Bright and Red, Highly polished prongs	...	132/-	156/- "
Split "D" Handles ...		4/- dozen less.	"T" Handles ... 12/- dozen less.	



**Christchurch Pattern, Solid Strapped, Oval Prongs, 12 inch Straps, 3 Rivets, Extra Quality Ash**  
Double Riveted "D" Handles, 32 inch; specially waxed.

		4 Prong	5 Prong	6 Prong
		13 x 8	13 x 9	13 1/2 x 9 1/2 inch
C386	"Neverbend" Brand Bright and Red	93/-	109/-	129/- dozen.

## FORKS



**Socket Strapped Digging Forks, "NEVERBEND" Brand, 14 inch Straps, 3 Rivets, 30 inch Extra Quality Ash Double Riveted "D" Handles, specially waxed.**

		Length and Width ...	4 prongs 13" x 8"	5 prongs 13" x 9"	
<b>C301</b>	Square Prongs, Black finish ... ..	...	<b>102/-</b>	<b>122/-</b>	dozen
<b>C380</b>	" " Half Bright and Red ... ..	...	<b>118/-</b>	<b>138/-</b>	"
<b>C381</b>	" " Full Bright and Red, Highly Polished Prongs ... ..	...	<b>134/-</b>	<b>154/-</b>	"
<b>C302</b>	Half Oval and Half Square, Black Finish ... ..	...	<b>116/-</b>	<b>136/-</b>	"
<b>C382</b>	" " Half Bright and Red ... ..	...	<b>132/-</b>	<b>152/-</b>	"
<b>C383</b>	" " Full Bright and Red, Highly Polished Prongs ... ..	...	<b>148/-</b>	<b>168/-</b>	"

Split "D" Handles, 4/- dozen less. "T" Handles, 12/- dozen less.



**Solid Socket Digging Forks, "NEVERBEND" Brand, 14 inch Lip Socket, Extra Quality Ash Double Riveted "D" Handles, specially waxed, Size 13 x 8 inches.**

<b>C418</b>	Four Square Prongs, Black Finish ... ..	...	...	<b>90/-</b>	dozen
<b>C419</b>	" " " Bright and Red ... ..	...	...	<b>98/-</b>	"

Split "D" Handles, 4/- dozen less. "T" Handles, 12/- dozen less.



**Extra Strong Agricultural Forks, Solid Strapped, for trenching, shrub lifting, heavy soil, etc. 5 Rivets in strap, extra quality Ash Double Riveted "D" Handles. Chisel ends.**

		3 prong 13" x 8 1/2"	4 prong 13 1/2" x 9"	
<b>C303</b>	"NEVERBEND" Brand, square prongs, black finish, waxed handles ... ..	<b>125/-</b>	<b>129/-</b>	dozen
<b>C1303</b>	"Leapfrog" Brand, square prongs, self colour, D.R.D.H. ... ..	<b>98/-</b>	<b>102/-</b>	"

State type of Prongs required.



**FORKS**

**Solid Strapped Potato Forks, "Neverbend" Brand, Prongs with Pointed Ends, 12 inch Straps, 3 Rivets, Extra Quality Double Riveted "D" Ash Handles, 30 inch. Waxed.**

	Length x Width	4 Prongs	5 Prongs
		11½ x 8	12 x 9 inch
<b>"Neverbend" Brand</b>			
C309 Flat Prongs, Black finish ... ..		88/-	104/- dozen
C311 Ridged-back Prongs, Self Colour ... ..		92/-	108/- "
C312 " " Bright on face, and Red, specially polished ...		98/-	114/- "
<b>"Leapfrog" Brand, Warranted Quality.</b>			
C391 Flat Prongs, Self Colour, Single Riveted "D" Handles ... ..		78/-	94/- dozen
	Split "D" Handles 4/- dozen less.	T Handles 12/- dozen less.	



**John Cockerill's "Aetna" Brand, 10 inch Straps, 2 Rivets, Ash Handles.**

	Length x Width...	4 prongs	5 prongs
		11½ x 8	12 x 9 inch
C2309 Flat Prongs, Self colour, Single Riveted "D" Handles ... ..		67/-	83/- dozen
C2311 Ridged-back Prongs, Self Colour, Single Riveted "D" Handles ...		73/-	89/- "
	Split "D" Handles 4/- dozen extra.	T Handles 4/- dozen less.	

**SPADING FORKS.—Any of above Patterns can be supplied with Chisel Point Prongs at same Prices.**



**Canterbury Pattern, Oval Prongs, 12 inch Straps, 3 Rivets, Extra Quality Ash Handles, 32 inch Bright and Red, extra finish, waxed handles.**

	Length x Width	4 Prongs	5 Prongs	6 Prongs
		13 x 8	13 x 9	13½ x 9½ inch
C430 "Neverbend" Brand, Metal "D" Handles ... ..		89/-	105/-	125/- dozen.
C431 " " " Double Riveted "D" Handles ... ..		92/-	108/-	128/- "



**Tasmanian Pattern Strapped Potato Forks, 10 inch Straps, 2 Rivets, Extra Quality Ash Handles,**

	Length x Width	5 Prongs	6 Prongs
		10½ x 8	11½ x 9, inch
<b>"Neverbend" Brand. Handles specially waxed.</b>			
C423 50 in. Long Handle or C427 Double Riveted "D" Handle Black finish ...		106/-	126/- dozen
C426 " " " " " Bright and Red		114/-	134/- "



**Potato Lifting Forks for Bag Filling.**

**C397** "Neverbend" Brand, Round Prongs with ball points, 10 inch Straps, 2 Rivets, Self colour, 16×12½×12 inch, 10 Prongs, Oval Crutch Handles, waxed ... .. 200/- doz.

Other types of handle at same price.



**Solid Strapped Potato Drags, 10 inch Straps, 2 Rivets, Extra Quality Ash Handles (Handles specially waxed and protected by sheaths).**

"Neverbend" Brand.

		Number of Prongs Length × Width		
		3 6½ × 5½	4 7 × 6	5 7½ × 6½ inch
<b>C360</b>	Ridged Back Prongs, Black Finish, 5ft. Handles ... ..	78/-	82/-	96/- dozen
<b>C361</b>	Oval Prongs, Bright and Red, 5ft. Handles ... ..	74/-	78/-	92/- "



**Solid Strapped Manure Drags, 10 inch Straps, 2 Rivets. Extra Quality Ash Handles, specially waxed and sheathed.**

"Neverbend" Brand.

		Number of Prongs Length × Width		
		3 9½ × 7½	4 10 × 8	5 10½ × 9 inch
<b>C357</b>	Oval Prongs, Bright and Blue, 5ft. Handles ... ..	91/-	95/-	115/- dozen
<b>C358</b>	Square Prongs, Black Finish, 5ft. Handles ... ..	83/-	87/-	107/- "

With 6ft. handles 9/- dozen extra.

## Solid Strapped Manure Forks.



S. & J's "Neverbend" Brand, Extra Quality Ash Handles, specially waxed. 12 inch straps, 3 rivets. (Prices listed are for Metal "D" Handle as illustrated above).

	Number of Prongs Length × Width	4			
		12½ × 8½	13 × 9½	13½ × 9½	14 × 11 inch
C330	Oval Prongs, All Bright and Red, polished prongs ...	96/-	98/-	120/-	140/- dozen
C331	" " " All Bright and Blue ...	88/-	90/-	112/-	132/- "
C334	"Leapfrog" brand Square Prongs, Black Finish ...	79/-	83/-	95/-	115/- "

"T" Handles, 10/- doz. less. 4ft. long Handle or Split "D," 2/- doz. less. 4½ft. or D.R.D.H., 4/- doz. extra.

S. & J's "Leapfrog" Brand, Warranted Quality. 10 inch straps, 2 rivets.

	Number of Prongs Length × Width	4		
		12½ × 8½	13 × 9½	13½ × 9½ inch
C332	Oval Prongs, Half Bright and Red ...	78/-	80/-	102/- dozen

"T" Handles, 10/- doz. less. 4ft. Long Handle or Split "D," 2/- doz. less. 4½ft. or D.R.D.H., 4/- doz. extra.

John Cockerill's "Aetna" Brand, Cheap Quality. 10 inch straps, 2 rivets.

C232	Oval Prongs, Half Bright and Red ...	64/-	66/-	82/- dozen
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"T" Handles, 10/- doz. less. 4ft. Long Handle or Split "D," 2/- doz. less. 4½ft. or Double Riv. D.H., 4/- doz. extra.

## Special Light Forks.



C349 Cap Hooped. (Size No. 2)



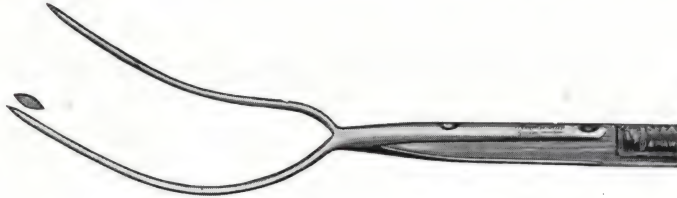
C350 Socket Strapped. (Size No. 3)

	No. of Prongs Size Nos. Length Width	T Handle							
		4				4 ft. Long Handle or Metal Hilt.			
		4	4	5	6	4	4	5	6
		2	3	3	3	2	3	3	3
		13	13½	13½	14	13	13½	13½	14 inch
		8½	9½	9½	11	8½	9½	9½	11 "
C349	"Neverbend" All Bright and Blue (pinned tang)	67/-	71/-	89/-	111/-	74/-	78/-	96/-	118/- dozen
C1349	"Leapfrog" Half Bright and Blue ...	53/-	57/-	71/-	89/-	57/-	60/-	74/-	92/- "
C350	"Neverbend" All Bright and Blue ...	71/-	75/-	93/-	114/-	78/-	82/-	100/-	121/- "
C1350	"Leapfrog" Half Bright and Blue ...	57/-	61/-	75/-	93/-	60/-	64/-	78/-	96/- "

"Neverbend" Forks have specially waxed Handles, the All Bright and Blue have highly polished Prongs. Straw, Loading and Stable Forks: Ask for our special price lists.

**NEVERBEND HAYFORKS**

**STRAPPED PATTERNS.**



**C478** 2 prong. All Bright. "Neverbend" Brand. Specially selected Ash Handles, waxed.

Length × Width of Prongs		4	4½	5	5½	6	6½	7 feet.
9 in.	5 in. ...	72/-	74/-	76/-	81/-	88/-	96/-	104/- dozen.
10 "	5½ " ...	74/-	76/-	78/-	83/-	90/-	98/-	106/- "
11 "	6 " ...	76/-	78/-	80/-	85/-	92/-	100/-	108/- "
12 "	6½ " ...	78/-	80/-	82/-	87/-	94/-	102/-	110/- "
13 "	7 " ...	80/-	82/-	84/-	89/-	96/-	104/-	112/- "
14 "	7½ " ...	82/-	84/-	86/-	91/-	98/-	106/-	114/- "

**C480** 3 prong, as C478, Bright and Blue. 14/- dozen extra.

**C482** 2 prong, Bright and Blue, "Leapfrog" Brand.

Length × Width of Prongs		4	4½	5	5½	6	6½	7 feet.
9 in.	5 in. ...	61/-	63/-	65/-	69/-	73/-	81/-	89/- dozen.
10 "	5½ " ...	63/-	65/-	67/-	71/-	75/-	83/-	91/- "
11 "	6 " ...	65/-	67/-	69/-	73/-	77/-	85/-	93/- "
12 "	6½ " ...	67/-	69/-	71/-	75/-	79/-	87/-	95/- "
13 "	7 " ...	69/-	71/-	73/-	77/-	81/-	89/-	97/- "
14 "	7½ " ...	71/-	73/-	75/-	79/-	83/-	91/-	99/- "

**C483** 3 prong, as C482, 12/- dozen extra.

**C484** 2 prong, Bright and Blue, "John Cockerill" Brand.

Length × Width of Prongs		4	4½	5	5½	6 feet.
10 in.	5½ in. ...	...	...	50/-	52/-	62/- dozen.
11 "	6 " ...	...	...	52/-	54/-	64/- "
12 "	6½ " ...	...	...	54/-	56/-	66/- "

**Cumberland and Norfolk Patterns** (Wide Heels) can be supplied when specified. "Mermaid" Hayforks with Specially Waxed Handles are supplied in Protective Sheaths to preserve their Superior Finish.

**Heavy type Prices are Standard Sizes.**



**SOCKET STRAPPED**

**NEVERBEND HAYFORKS.**



**C529** 2 prong, Pinned through tang, "Neverbend" Brand, Bright and Blue. Specially selected Ash Handles, waxed.

Length × Width of Prongs		4	4½	5	5½	6	6½	7 feet.
9 in.	5 in. ... ..	62/-	64/-	66/-	71/-	78/-	86/-	94/- dozen.
10 "	5½ " ... ..	64/-	66/-	68/-	73/-	80/-	88/-	96/- "
11 "	6 " ... ..	66/-	68/-	70/-	75/-	82/-	90/-	98/- "
12 "	6½ " ... ..	68/-	70/-	72/-	77/-	84/-	92/-	100/- "
13 "	7 " ... ..	70/-	72/-	74/-	79/-	86/-	94/-	102/- "

**C531** 3 prong, as C529. 20/- dozen extra.

**C539** 2 prong, Bright and Blue, "Leapfrog" Brand.

Length × Width of Prongs		4	4½	5	5½	6	6½	7 feet.
9 in.	5 in. ... ..	50/-	53/-	57/-	61/-	67/-	76/-	89/- dozen.
10 "	5½ " ... ..	52/-	55/-	59/-	63/-	69/-	78/-	91/- "
11 "	6 " ... ..	54/-	57/-	61/-	65/-	71/-	80/-	93/- "
12 "	6½ " ... ..	56/-	59/-	63/-	67/-	73/-	82/-	95/- "

**C540** 3 prong, as C539. 15/- dozen extra.

"Neverbend" Hayforks with Specially Waxed Handles, supplied in Protective Sheaths to preserve their Superior Finish.

**Heavy type Prices are Standard Sizes.**

**NEVERBEND HAYFORKS**

**CAP HOOPED**



**C532** 2 prong, Pinned through tang, "Neverbend" Brand, Bright and Blue. Specially selected Ash Handles, waxed.

Length × Width of Prongs		4	4½	5	5½	6	6½	7 feet.
9 in.	5 in. ... ..	58/-	60/-	62/-	67/-	74/-	82/-	90/- dozen.
10 "	5½ " ... ..	60/-	62/-	64/-	69/-	76/-	84/-	92/- "
11 "	6 " ... ..	62/-	64/-	66/-	71/-	78/-	86/-	94/- "
12 "	6½ " ... ..	64/-	66/-	68/-	73/-	80/-	88/-	96/- "
13 "	7 " ... ..	66/-	68/-	70/-	75/-	82/-	90/-	98/- "

**C533** 3 prong, as C532. 20/- dozen extra.

**C537** 2 prong, Half Bright and Blue. "Leapfrog" Brand.

Length × Width of Prongs		4	4½	5	5½	6	6½	7 feet.
9 in.	5 in. ... ..	47/-	50/-	54/-	58/-	64/-	73/-	86/- dozen.
10 "	5½ " ... ..	49/-	52/-	56/-	60/-	66/-	75/-	88/- "
11 "	6 " ... ..	51/-	54/-	58/-	62/-	68/-	77/-	90/- "
12 "	6½ " ... ..	53/-	56/-	60/-	64/-	70/-	79/-	92/- "

**C538** 3 prong, as C537. 15/- dozen extra.

**C494** 2 prong, Pinned through tang, "Leapfrog" Brand, All Bright. Good Ash Handles.

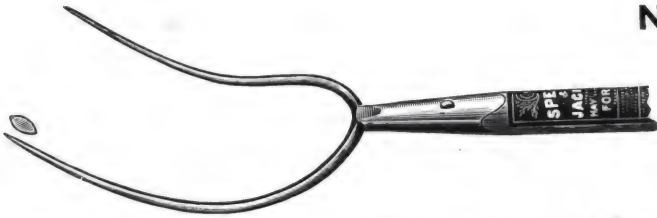
Length × Width of Prongs		4	4½	5	5½	6	6½	7 feet.
9 in.	5 in. ... ..	49/-	52/-	56/-	60/-	66/-	75/-	88/- dozen.
10 "	5½ " ... ..	51/-	54/-	58/-	62/-	68/-	77/-	90/- "
11 "	6 " ... ..	53/-	56/-	60/-	64/-	70/-	79/-	92/- "
12 "	6½ " ... ..	55/-	58/-	62/-	66/-	72/-	81/-	94/- "
13 "	7 " ... ..	57/-	60/-	64/-	68/-	74/-	83/-	96/- "
14 "	7½ " ... ..	59/-	62/-	66/-	70/-	76/-	85/-	98/- "

**C496** 3 prong, as C494. 16/- dozen extra.

"Neverbend" Hayforks with Specially Waxed Handles, supplied in Protective Sheaths to preserve their Superior Finish.

**Heavy type Prices are Standard Sizes.**

**NEVERBEND HAYFORKS  
BEVELLED HOOPED.**



**C485** Bevelled Hooped, 2 prong, Pinned through tang, Patent Lip, "Neverbend" Brand, All Bright. Specially selected Ash Handles, waxed.

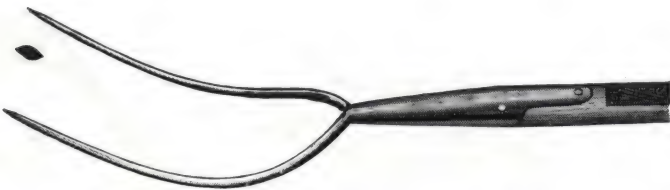
Length × Width of Prongs		4	4½	5	5½	6	6½	7 feet.
9 in.	5 in. ... ..	60/-	62/-	64/-	70/-	76/-	84/-	92/- dozen.
10 "	5½ " ... ..	62/-	64/-	66/-	72/-	78/-	86/-	94/- "
11 "	6 " ... ..	64/-	66/-	68/-	74/-	80/-	88/-	96/- "
12 "	6½ " ... ..	66/-	68/-	70/-	76/-	82/-	90/-	98/- "
13 "	7 " ... ..	68/-	70/-	72/-	78/-	84/-	92/-	100/- "
14 "	7½ " ... ..	70/-	72/-	74/-	80/-	86/-	94/-	102/- "

**C486** Bevelled Hooped, 3 prong, as C485. 18/- dozen extra.

**C487** Bevelled Hooped, 2 prong, Plain Bevelled Hoop, Pinned through tang, All Bright, "Leapfrog" Brand (not "Neverbend" quality). Best Ash Handles.

Length × Width of Prongs		4	4½	5	5½	6	6½	7 feet.
9 in.	5 in. ... ..	51/-	53/-	55/-	60/-	67/-	75/-	83/- dozen.
10 "	5½ " ... ..	53/-	55/-	57/-	62/-	69/-	77/-	85/- "
11 "	6 " ... ..	55/-	57/-	59/-	64/-	71/-	79/-	87/- "
12 "	6½ " ... ..	57/-	59/-	61/-	66/-	73/-	81/-	89/- "
13 "	7 " ... ..	59/-	61/-	63/-	68/-	75/-	83/-	91/- "
14 "	7½ " ... ..	61/-	63/-	65/-	70/-	77/-	85/-	93/- "

**C489** Bevelled Hooped, 3 prong, as C487. 20/- dozen extra.



**HAYFORKS  
SOLID SOCKET.**

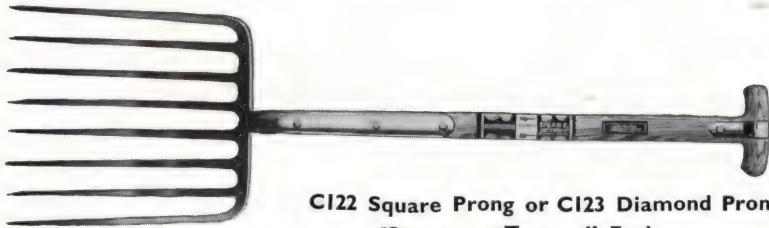
**C534** Solid Socket, 2 prong, Bright and Red, "Leapfrog" Brand. Good Ash Handles.

Length × Width of Prongs		4	4½	5	5½	6 feet.
9 in.	5 in. ... ..	55/-	59/-	63/-	69/-	75/- dozen.
10 "	5½ " ... ..	57/-	61/-	65/-	71/-	77/- "
11 "	6 " ... ..	59/-	63/-	67/-	73/-	79/- "
12 "	6½ " ... ..	61/-	65/-	69/-	75/-	81/- "

"Mermaid" Hayforks with Specially Waxed Handles are supplied in Protective Sheaths to preserve their Superior Finish.

Heavy type Prices are Standard Sizes.

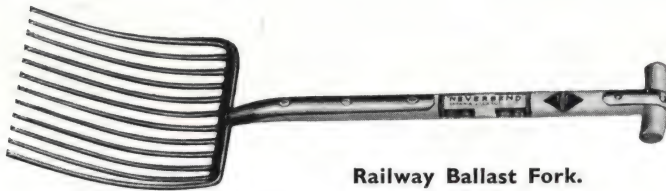
## BALLAST & STONE FORKS, Etc.



C122 Square Prong or C123 Diamond Prong  
 Stone or "Tarmac" Fork.



C124 Stone or Ballast Fork.



Railway Ballast Fork.

**Solid Strapped Pattern, 12in. straps, 3 rivets, 30in. extra quality Ash Handles.**

- C122. "Neverbend" Brand Stone or Macadam Fork, square prong, outside prongs turned up, Clasped "T" Handle.  
 C123. " " " " " diamond prong, " " "  
 C124. " " " Stone and Ballast Fork, square prong, outside prongs straight, inside prongs curved.  
 Double Riveted "D" Handle.

Railway Ballast Fork, diamond prong, turned up sides, Clasped "T" Handle.

Flat Dished Pattern, see C369 on page 139.

Normal size	Length × Width at Points	6 13½ × 11	7 13½ × 11½	8 14 × 12	9 14 × 12½	10 prongs 14 × 13 inch
Price (any Handle)	... ..	9/-	10/6	12/-	13/6	15/- each



### Strapped Ferrule Patterns.

"Neverbend" Brand Stone or Ballast Forks, tanged, with strapped ferrule and cap; 2 rivets; diamond or square prong, as desired; 30 inch Double Riveted "D" or other type of Handle. Prices on same basis as Solid Strapped type, above.

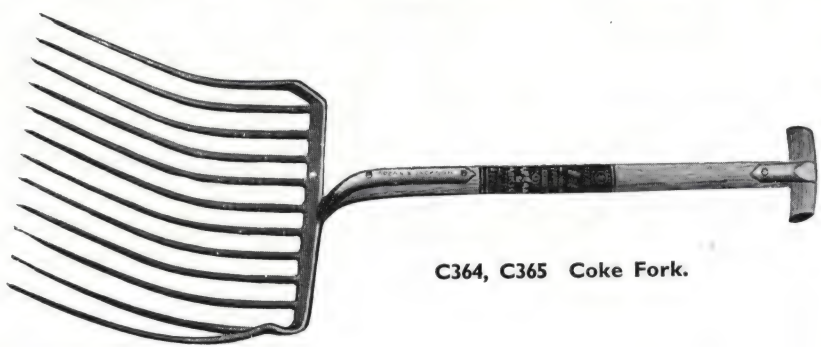
**Note.**—Length and width and section of prongs should be indicated in orders. State also space between prongs—measured halfway between point of prongs and shoulder.



**C369**

**Solid Strapped Stone or Sluice Forks, 10in. Straps, 2 Rivets, self-colour, diamond prongs, flat dished (sides not turned up), extra quality Ash Handles.**

	Prongs ...	10	11	12
	Length × Width ...	13 × 11	13½ × 11½	14 × 12 inch
<b>C369.</b> "Neverbend" Brand 4½ Feet or other Handle		15/-	16/6	18/- each



**C364, C365 Coke Fork.**



**C366 Coal Fork.**

**Solid Strapped Coke and Coal Forks. Self-colour, extra quality Ash Handles of any type.**

	Prongs	10	11	12	13	14	16	18	20
	Length × Width at points	18 × 15	18 × 16	18 × 17	18 × 17	18 × 18	20 × 18	20 × 19	20 × 20 inch
<b>C364.</b> "Neverbend" Brand Square Prongs ...		15/-	16/6	18/-	19/6	21/-	24/-	27/-	30/- each
<b>C365.</b> " " Diamond Prongs ...									
<b>C366.</b> " " Square Prongs, flat sides									

**Prices quoted for special patterns on receipt of specification.**



Machete de suelo, pulido y azulado, (o todo pulido), con mango de cuerno liso.



Pala de puntear,  
media-luna ancha.



Pala para cafetal, hoja pulida,  
"Mysore"  
"Sirena"  
La Muñeca Negra

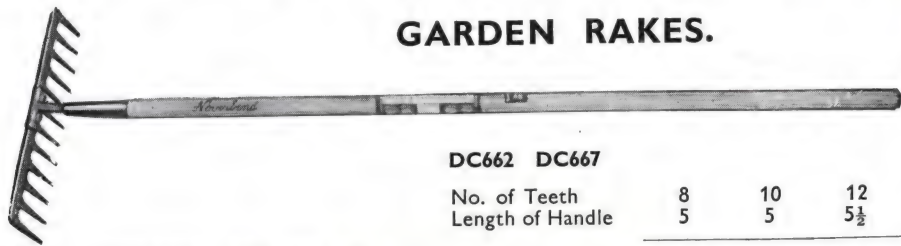


Pala rebitada, punto redondo,  
hoja pulida, delgada y estrecha.

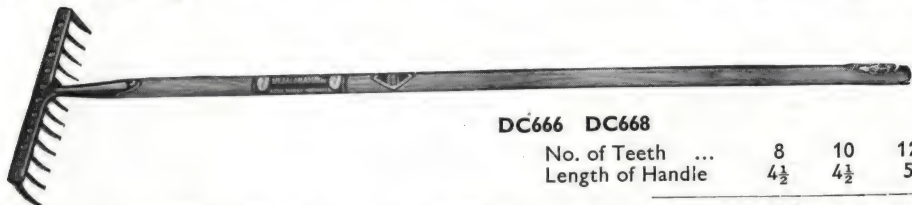


Lampa peruana modelo de cubo solido con refuerzos largos en el mango.

**GARDEN RAKES.**



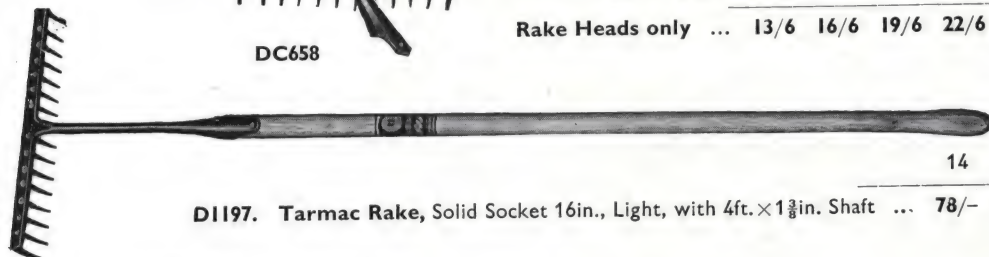
		DC662	DC667						
		No. of Teeth		8	10	12	14	16	
		Length of Handle		5	5	5½	5½	5½	Feet
DC662.	"Neverbend" Black and Gold ... ..	...	...	51/6	53/-	58/6	65/6	69/6	dozen
DC667.	" " Bright and Gold ... ..	...	...	58/6	62/-	65/6	72/9	76/6	"
		Length of Handle		4½	5	5	5	—	feet
DC672.	"Leapfrog" Black ... ..	...	...	36/6	40/6	44/-	47/6	—	dozen



		DC666	DC668						
		No. of Teeth ...		8	10	12	14	16	
		Length of Handle		4½	4½	5	5½	5½	feet
DC666.	"Mermaid" Solid End, Bolstered Teeth, Black ... ..	...	...	34/6	37/6	43/6	48/9	54/9	dozen
DC668.	"Leapfrog" " " " 4ft Good Quality Handles ... ..	...	...	26/-	29/3	32/-	—	—	"
DC2668.	"John Cockerill" " " " 4ft Cheaper Handles ... ..	...	...	20/6	24/-	27/6	—	—	"



		No. of Teeth	8	10	12	14	16	
Rake Heads only ...			13/6	16/6	19/6	22/6	27/-	dozen



		14	16	Teeth
D1197.	Tarmac Rake, Solid Socket 16in., Light, with 4ft. x 1 3/8 in. Shaft ...	78/-	84/-	dozen

**CULTIVATORS "Neverbend" Adjustable Prongs, Black and Gold.**



DC865.	3 Prong, 12in. Handle ... ..	33/-	dozen
DC866.	3 " 48in. " ... ..	54/-	"
DC867.	5 " 48in. " ... ..	66/-	"

**UNHANDLED HOES.**



DC757



DC758



DC760



DC761

			Blades	4	5	6	7	8	9	inch.
DC757	Riveted	Bright and Blue,	Short Neck,	3in. Deep	11/-	11/-	12/-	13/-	13/6	15/- dozen.
DC758	"	"	Long Neck	"	12/-	12/-	13/-	14/3	15/-	16/6 "
DC760	Solid	"	Short Neck	"	20/-	20/-	21/6	23/6	25/6	28/- "
DC761	"	"	Long Neck	"	23/-	23/-	24/6	27/-	30/-	33/- "



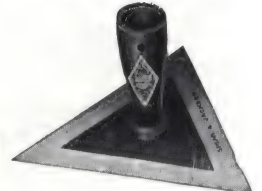
DC649



DC763



DC778

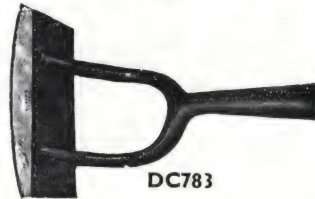


DC787

				Blades	4	5	6	7	8	9	inch.
DC649	Stalham,	Solid Socket,	2 1/2 in. Deep,	all Bright	33/-	34/6	36/-	37/6	39/-	40/6	dozen.
DC763	Solid Swan Neck,	Half Bright,	3in Deep	"	26/6	27/6	29/-	30/6	32/6	"	
DC778	"	"	"	"	23/3	23/3	24/9	26/6	28/6	30/-	"
DC787	Triangular,	Iron Socket,	Nut and Screw,	Bright & Blue	23/3	23/3	24/9	26/6	28/6	30/-	"



DC781 DC782



DC783



DC780



DC784

				Blades	3	4	5	6	7	8	9	inch.
DC781	Dutch,	Riveted,	Bright and Blue	...	—	23/-	23/6	25/6	28/-	31/-	35/-	dozen.
DC782	"	Solid	"	...	—	26/-	27/6	29/6	31/6	33/-	35/-	"
DC783	"	Stamped	"	...	11/-	12/6	13/6	15/-	16/6	18/9	—	"
DC780	Potato,	Solid,	Quarter Bright	...	—	28/-	—	—	—	—	—	"
DC784	Paxton,	Socket,	Bright and Red	...	—	32/6	33/-	34/-	36/-	38/6	42/6	"

DC791



DC789



Hoe Blades, Quarter Bright.	5-6	7-8	9-10	inch.
2 1/2 in. x 16 or 18 gauge	6/3	7/-	7/6	dozen.
3 in. x 16 or 18 gauge	7/-	7/6	8/3	"

Hoe Frames, Blacked	4	5	inch.
DC789	23/6	26/-	dozen.

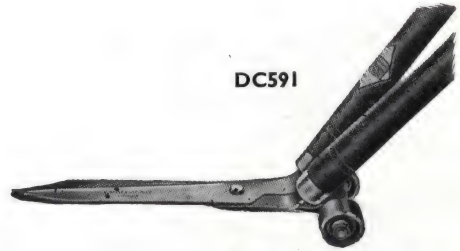








DC590  
DC609



DC591

**LAWN SHEARS**

	7	8	9	10	inch
DC590. Standard Pattern, without Wheel, 36in. Handles	—	10/-	10/-	11/-	Pair
DC591. " " with " " " "	—	12/6	12/6	13/6	"
DC609. Ladies' " without " " 32in. " "	9/-	9/-	—	—	"

With Rubber Buffers, 1/6 per pair extra.



DC588  
DC608



DC589

**BORDER SHEARS**

	7	8	9	10	inch
DC588. Standard Pattern, without wheel, 36in. Handle ...	—	10/-	10/-	11/-	pair
DC589. " " with " " " " ...	—	11/-	11/-	12/-	"
DC608 Ladies' " without " " 32in. " " ...	9/-	9/-	—	—	"
DC610 Light " " " " 32in. handles, 8in. ...	6/9	6/9	6/9	6/9	per pair.



DC598

	Size No.	1	2	3	4	inch
		Blade from centre of Rivet	2½	3	3½	
Length of Handle		20	24	28	32	inch
DC598. Solid Steel Blades	...	8/9	10/-	11/6	13/-	pair

All our Shears are fitted with Special Locknut to prevent Blades working loose.

**GARDEN TROWELS**



DC680 DC678



DC686



DC685



DC694



DC700

Stainless, Trowel and Weed Fork (Boxed)

Trowel (DC699) and Weed Fork (DC715) 9/- per set.

	6	7	inch
DC678. Riveted, Bright and Red, 5 in. Handle	12/6	13/6	dozen.
DC680. As DC678, All Bright	15/9	—	—
DC685. Solid	29/6	32/-	—
DC686. Socket, Bright and Red 8 in.	15/-	—	—
DC750. As DC686 3 in.	13/6	—	—
DC687. " 15 in.	18/6	—	—
DC702. Riveted, Cheap Pattern, Red, 5 in. Handle	7/3	—	—
DC699. Solid, Stainless, Brass Ferrule	48/-	—	—
DC694. Bulb Trowel, Socket Bright and Red	15/-	—	—

**EDGING KNIVES.**



DC738

DC740



DC734



DC738. Stamped Socket, 8in. Blade, Bright and Red, 32in. Ash "T" Handle	40/6	dozen
DC740. Solid Steel Tanged, " Self Colour, Hardwood	30/-	"
DC734. Solid Forged Tanged, " Bright and Red Ash	46/6	"
DC737. " Socket " " " "	64/6	"
DC836. Stainless, as DC738, Bright and Gold	13/6	each

Extra for "D" Handles ... 10/6 dozen

**WEED FORKS.**



DC720



DC703



DC705



DC716



DC751

DC703.	Twisted Prongs, Tanged, Bright and Red, 5in. Handle	...	...	16/-	dozen.
DC704.	As DC703	"	Fitted with 15in. Handle...	20/-	"
DC705.	"	Socket	" 8in. "	18/6	"
DC706.	As DC705	"	" 15in. "	22/-	"
DC719.	As "	Socket Fitted with 50in.	Good Quality Handles	34/-	"
DC2719.	As "	"	48in. Cheaper "	27/6	"
DC716.	Flat Prongs, Tanged, Red, 5in. Handle	...	...	11/-	"
DC751.	"	"	Bright and Red, 5in. Handle	18/6	"
DC752.	As DC751	"	Fitted with 8in. Handle	21/-	"
DC753.	"	"	" 15in. "	22/-	"
DC701.	3 Prongs, Cheap Pattern, Red, 5in. Handle	...	...	7/3	"
DC715.	"	Stainless, Solid, Brass Ferrule, 5in. Handle	...	51/-	"

DC720. Best Quality, Socket Pattern Bright & Red with 48in. Good Quality Handle, 25/9 doz.  
 DC2720. With 48in. Cheaper Quality Handles ... .. 20/- "  
 DC754. Best Quality, Tanged Bright & Red, with Best Ash 48in. Handle, waxed 32/- "

**FEATHERWEIGHT SCYTHES FOR SINGLE HANDED USE.**

A very handy little tool which anyone can use for cutting rough grass, thistles, docks, etc., in places where it is impossible or awkward to use an ordinary scythe.

Particularly useful for bunkers on golf courses, clearing ditches, trimming hedges, cutting grass on banks and for general use on farms and in gardens.

Approximate size blade 16½in., handle 28in. detachable blade fastened with stirrup and worm screw by means of key provided with each scythe.

NOTE :—Grass Nail to keep Blade rigid.

Packed flat, easy to stock

DC965. **66/9** doz.

Packed in half dozens per box.



DC754

**NET WEIGHTS OF VARIOUS STANDARD SAWS AND TOOLS.**

All weights given are approximate only and are exclusive of packing.

**Cross-cut Saws.** Ground 2 gauges thin to back, without tangs or handles.

Length. ft. ins.	lbs. each.	Length. ft. ins.	lbs. each.	Length. ft. ins.	lbs. each.	Length. ft. ins.	lbs. each.
3 6	2 $\frac{3}{4}$	5 0	5	6 6	9 $\frac{1}{4}$	8 0	12.
4 0	3	5 6	6 $\frac{1}{4}$	7 0	10 $\frac{1}{2}$		
4 6	4 $\frac{1}{2}$	6 0	7 $\frac{1}{4}$	7 6	11 $\frac{1}{4}$		

**Pit Saws. Without Fittings.**

Length. ft. ins.	Width at butt. Inches.	lbs. each.	Length. ft. ins.	Width at butt. Inches.	lbs. each.	Length. ft. ins.	Width at butt. Inches.	lbs. each.	Length. ft. ins.	Width at butt. Inches.	lbs. each.
5 0	10	9 $\frac{1}{2}$	5 0	11	10 $\frac{1}{2}$	7 0	11	14 $\frac{1}{2}$	9 0	12	27
5 6	10	10 $\frac{1}{4}$	5 6	11	11 $\frac{1}{4}$	7 6	11	16 $\frac{1}{4}$	9 6	12	30
6 0	10	11	6 0	11	12	8 0	12	22			
6 6	10	12 $\frac{1}{4}$	6 6	11	12 $\frac{3}{4}$	8 6	12	24 $\frac{1}{2}$			

**Machine Knives. With standard slots and bevels.**

Width. Inches.	Thick-ness. Inches.	Weight Per foot lbs. ozs.	Width. Inches.	Thick-ness. Inches.	Weight Per foot lbs. ozs.	Width. Inches.	Thick-ness. Inches.	Weight Per foot lbs. ozs.	Width. Inches.	Thick-ness. Inches.	Weight Per foot lbs. ozs.
1 $\frac{1}{2}$	$\frac{1}{8}$	0 12	2 $\frac{1}{4}$	$\frac{1}{4}$	1 12	3	$\frac{3}{16}$	3 6	4 $\frac{1}{2}$	$\frac{3}{16}$	5 0
1 $\frac{3}{4}$	$\frac{5}{32}$	1 0	2 $\frac{1}{2}$	$\frac{5}{16}$	2 4	3 $\frac{1}{2}$	$\frac{5}{16}$	3 2	5	$\frac{3}{16}$	5 9
2	$\frac{3}{16}$	1 2	2 $\frac{3}{4}$	$\frac{3}{8}$	2 12	3 $\frac{3}{4}$	$\frac{3}{8}$	3 12	5 $\frac{1}{2}$	$\frac{3}{8}$	6 2
2	$\frac{1}{4}$	1 8	3	$\frac{5}{16}$	2 11	4	$\frac{3}{8}$	4 8	6	$\frac{3}{8}$	6 12

**Bandsaws.—(Toothed).**

Width. Inches.	Gauge.	Weight per 100 feet. lbs.	Width. Inches.	Gauge.	Weight per 100 feet. lbs.	Width. Inches.	Gauge.	Weight per 100 feet. lbs.	Width. Inches.	Gauge.	Weight per 100 feet. lbs.
$\frac{1}{4}$	22	2 $\frac{3}{4}$	2 $\frac{1}{2}$	19	35	6	17	118	9	16	200
$\frac{1}{2}$	22	4 $\frac{3}{4}$	3	19	42	6	18	100	10	14	282
$\frac{3}{4}$	21	8 $\frac{1}{4}$	3 $\frac{1}{2}$	19	50	7	17	138	10	15	245
1	20	12	4	19	57	7	18	116	12	14	340
1 $\frac{1}{4}$	20	15	4 $\frac{1}{2}$	19	64	8	16	176	12	15	294
1 $\frac{1}{2}$	20	18	5	19	71	8	17	158	14	14	395
1 $\frac{3}{4}$	20	21	5 $\frac{1}{2}$	18	92	9	15	220	14	15	343
2	19	28									

**Mill Saws and Mill Webs.**

Width. Inches.	Gauge.	lbs. weight per 6 ft. long.	Width. Inches.	Gauge.	lbs. weight per 6 ft. long.	Width. Inches.	Gauge.	lbs. weight per 6 ft. long.	Width. Inches.	Gauge.	lbs. weight per 6 ft. long.
4	14	6 $\frac{3}{4}$	6	12	13	7 $\frac{1}{2}$	10	20 $\frac{1}{4}$	10	11	27 $\frac{1}{2}$
4	13	7 $\frac{1}{4}$	6 $\frac{1}{2}$	14	11 $\frac{1}{4}$	12	12	17 $\frac{1}{2}$	10	10	26 $\frac{1}{2}$
4 $\frac{1}{2}$	14	7 $\frac{1}{2}$	6 $\frac{1}{2}$	13	12	8	11	19 $\frac{1}{2}$	10	9	28 $\frac{1}{2}$
4 $\frac{1}{2}$	13	8 $\frac{1}{4}$	6 $\frac{1}{2}$	12	14	8	10	21	11	11	27
5	14	8 $\frac{3}{4}$	6 $\frac{1}{2}$	11	16	8 $\frac{1}{2}$	12	18 $\frac{3}{4}$	11	10	29
5	13	9 $\frac{3}{4}$	7	13	13	8 $\frac{1}{2}$	11	20 $\frac{3}{4}$	11	9	31
5 $\frac{1}{2}$	14	9 $\frac{1}{2}$	7	12	15	8 $\frac{3}{4}$	10	22 $\frac{3}{4}$	12	11	29 $\frac{1}{2}$
5 $\frac{1}{2}$	13	10 $\frac{1}{2}$	7	11	17	9	12	20	12	10	31 $\frac{1}{2}$
6	14	10 $\frac{1}{4}$	7 $\frac{1}{2}$	12	16 $\frac{1}{4}$	9	11	22	12	9	33 $\frac{1}{2}$
6	13	11 $\frac{1}{4}$	7 $\frac{1}{2}$	11	18 $\frac{1}{4}$	9	10	24			

SOLID TOOTH OR INSERTED TOOTH CIRCULAR SAWS—Table of approximate weights given on page 9.



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